

HARMONY IN QUALITY AND DEVELOPMENT

SINCE 1950



THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES



PRODUCT CATALOGUE



Late Shri. Harbans Lal Sharma,
(02.02.1920 - 02.12.2002)

Founder
Vijay Cycle and Steel Industries

HARMONY IN QUALITY AND DEVELOPMENT SINCE 1950

Vijay Cycle & Steel Industries today is paramount in the Forged Steel Pipe Fittings manufacturing Scenario in India, this company was Conceptualized by Late Sh. Harbans Lal Sharma an Ex. Indian Air Force Officer way back in 1950.

He was a Visionary of remarkable Clarity with a heart of Gold. The present management owes its success to the seeds sown by him, one of which is; HR International 'the Hand Tool Company', this segment was experiencing an unprecedented boom with unmistakable pointers to an exponential growth fuelled by rising global demand.

Fulfilling the Dreams & Vision of their legendary Founder & with a team of highly professional people loaded with Sound Technical Knowledge and abundant experience in various relevant fields are running business at a scorching pace and giving products with unmatched quality and maintaining an everlasting relationship with their esteemed customers.

Our Inspiration to be No.1 comes through our actions towards product excellence leaving our Competition for wholehearted and solid support of our worthy Customers who placed us on the top pedestal. We will always live up to their expectations and strive to attain perfection and continue growing from strength to strength, year after year.



Sudarshan Sharma
Managing Director



Rishi Raj Sharma
CEO

MESSAGE FROM THE MANAGING DIRECTOR

Vijay Cycle and Steel Industries is a renowned name in the field of Forged Steel Pipe Fittings in the Indian Sub-Continent and has been manufacturing Top of the Line Products for over six decades. We are committed to Quality and Customer's Satisfaction ever since our Inception in 1958.

We have a large Dealers Network spread across the length and breath of India whose valued & continued Support has helped us to achieve New Heights of Success which Inspires us to do better Year after Year. We are supplying our products to refineries, Petrochemical Industry, Railways, Indian Marine Shipyard, Large, Medium, Small scale Industries and Commercial Units in India.

Dear Customer, You are our Real Strength and we are Thankful to you for bringing our company to the Forefront of Indian Industry. We assure you of our Commitment to implement and maintain high quality standards dedicated to your Total Satisfaction. We look forward with Great Interest in building new business relationships and to expand our horizons for a better tomorrow.

You are All Cordially invited to Please Come and Join us in our endeavour to lift Indian Industry to the Highest Pedestal, edge out Global Competition and provide a better platform to our Future Generations to World Leaders in Entrepreneurship & Business.

I once again Thank You for your whole Hearted Support and Faith Bestowed Upon Us.

Thank You

A handwritten signature in black ink, appearing to read 'Sudarshan', written over a horizontal line.

Sudershan Sharma
Managing Director

INNOVATIVE TECHNIQUE FOR CUSTOMISED SOLUTION

Our Production Facilities Match International Standards.

We at **Vijay Cycle & Steel Industries** continuously aim in giving Customised Solution as far as Manufacturing and delivery is Concerned. Building upon our humble beginning, we have, with time changed our production facilities and added State of Art Machinery, in die making, machining, Leak-testing and Packaging.

We have Incorporated Quality Standards on the Shop Floor aiming at a durable Product.

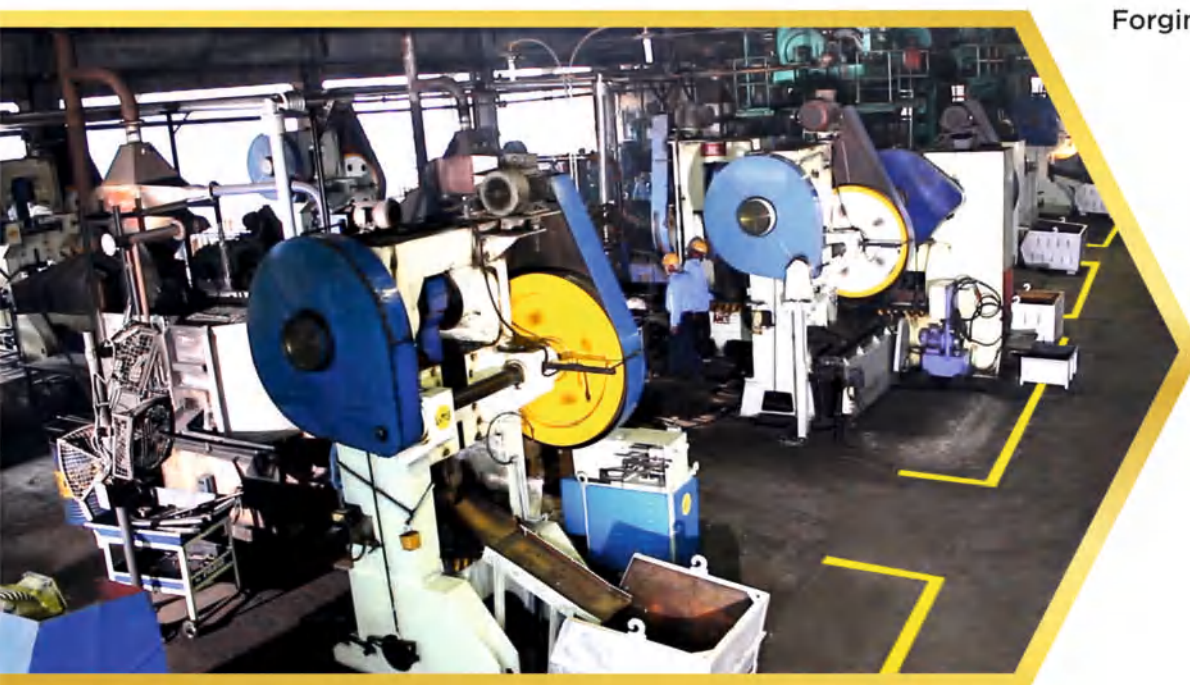
Systematizing the working environment and Improving the very lives of our working team benefiting one and all.



C.N.C. Die Making Machine

- PRODUCTION FACILITIES
- DIE MAKING

- FORGING
- MACHINING
- TESTING
- PACKAGING



Forging Section

World Class Infrastructure, R&D, Human Resourcing

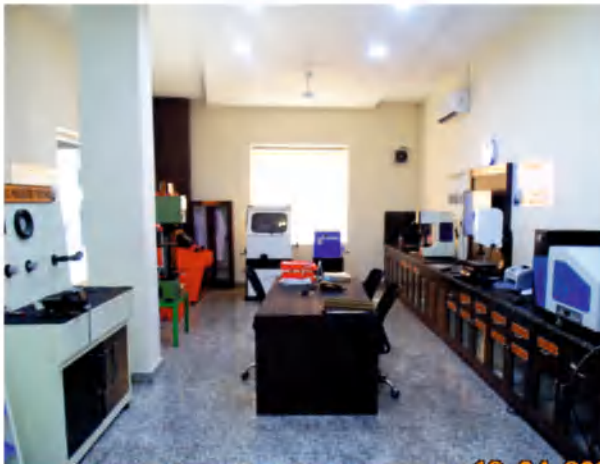
Vijay Cycle and Steel Industries has the State of art infrastructure, Latest machines for Die making, Forging, Machining, Testing, and R & D. Our product lines includes a wide range of Forged Steel Pipe Fittings for use in Industrial and Commercial establishments.

The Product designing is done on advanced **CAD/CAM** Systems.

Initially the incoming raw material is tested for Chemical & Physical Conformity to Standards in a well Equipped Test Lab where we also carry out of R & D activities.

The Steel is Forged on precision Forging Presses and friction Drop Hammers. These Forgings are then machined on the latest **CNC & SP** machines. We have an excellent facility of Manufacturing and Packaging which matches Global Standards in Quality and Safety.

Our assets include a dedicated manpower team together with advanced machinery which makes us Number One in Forged Steel Pipe Fittings in India. We are also the First in attaining **ISO 9001:2015** and **ISO 14001:2015** certification. For us it is a matter of great pride that through our products we happen to be part of the Industrial and National Chain of Growth.



Testing Lab



Forging Section



CNC Shop



Machine Shop



Vijay Cycle & Steel Industries

Vijay Cycle and Steel Industries is renowned name in the field of Forged Steel Pipe Fittings in the Indian Sub-Continent and has been manufacturing Top of the Line Products for over five decades. We are Committed to Quality and Customer's Satisfaction ever since our Inception in 1958.

We have large Dealer Network spread across the length and breath of India whose valued & Continued Support has helped us to achieve New Heights of Success which Inspires us to do better Year after Years. We are supplying our products to refineries. Petrochemical Industry, Railways, Indian Marine Shipyard, Large, Medium, Small Scale Industries and Commercial Units in India.

Dear Customer, You are our real strength and we are Thankful to you for bringning our Company to the forefront of Indian Industry. We assure you of our Commitment to implement and maintain High Quality Standards dedicated to your Total Satisfaction. We look forward with great interest in building new business relationships and to expand our horizons for a better tomorrow.

You are all Coardially invited to please come and join us in our endeavour to lift Indian industry to the heighth pedestal, edge out Global Competition and provide a better platform to our future generations to world Leaders in Enterpreniurship & Business.

I once again Thank you for your whole hearted support and Faith bestowed upon us.





Proxima Steel Forge Pvt. Ltd.

Proxima Steel Forge Pvt. Ltd., a part of 'VS' Group of Industries, was established in 1992. Its eminence has indeed grown manifold. The company's manufacturing based in Jalandhar has put it as bright spot on the World map of hand tool manufacturers.

Company is engaged into manufacturing of world class striking tool ie. Non Sparking Brass Hammers, Hammers, Axes, Bolster & Chiesel, Wrecking Bars etc.

Company is spread over in the area 10,000 square yard with manufacturing capacity of approx. 6000 ton per annum with five Drop Hammers (Maximum capacity 3 tone Drop Hammers).

Companies products are already being marketed in several countries like Europe, USA, UK, Africa, Middle East, South East Asia, South Asia. Our company has Certificates of VPA GS for German market, BS for UK market, We are also FSC certified company and with this we have achived sales target 200% every year.



HR International (UNIT I)



HR International (UNIT II)

H. R. International a part of 'VS' Group of Industries, a renowned name in the professional Hand tool market, has been manufacturing high-class Hand tools from day one and will continue with its efforts to maintain this quality level to create a long lasting relationship with its international customers. The entire team associated with this company has one common goal, and that is, Superb Quality & Customer Satisfaction.

Quality, integrity ethics and commitment have been the mottos of our company all these years and have been our guiding philosophy as an organisation. We have indetified and chiselled our core strengths to fulfill newer roles in the changing business environment. Investments in state-of-art Technology, Manpower training, Research & development - our endeavours are totally customer-centric as we constantly strive to deliver excellence and efficiency to the best of their satisfaction.

I am highly thankful to all our worthy customers for their continuous and valuable support and I look forward with great interest to new business relationships. Come join us and I am sure you will feel that you have made the right choice.

Certificates



Engineers India Limited

ENGINEERS INDIA LIMITED
(A Div. of India Insurance Co. Ltd.)
Head Office: Engineers India House, 1, Central Canal Place, New Delhi-110 006 India

Procurement Development Department

Ref: 4954/POD/VE/V157

M/s Vijay Cycle & Steel Industries
A-8, A-9, Focal Point
Jalandhar - 144 004
Punjab

Subject: Revitalization of Enlistment with EI.

Dear Sirs,

We refer to your application on subject matter and are pleased to inform that your enlistment with EI, has been revitalized for the items as described below:

Item Description	Material / Range
Fitting Block - forged	Size: 0.5-3" ANSI Class: 3000-3000 Material/Spec.: CS
Fittings, In 15-1229	Size: 0.5-4" Thickness: Up to 5.0mm Material/Spec.: IS 1229, Seamless/Hot Rolled

[This enlistment is valid for your works located at A-8, A-9, Focal Point, Jalandhar - 144 004, Punjab.]

Kindly note enlistment with EI, does not guarantee any regular flow of enquiries. For information on enquiries issued by EI, kindly refer our Tender Website (<https://tenders.eil.co.in/>) / CP portal (<https://cpportal.eil.co.in/>). In the event of direct / indirect orders for the projects executed by EI, materials shall be supplied strictly as per the material / range / works as stated above including agreed responsibility matrix, as applicable. Secondly, kindly keep on submitting your regular quotes for EI, RTCs failing which, EI shall be entitled to declare you as Dormant supplier as per the Terms and Conditions for enlistment.

Any change in the product range, location of Works/Sales Office, Management/ Organization structure etc., shall be intimated to us immediately along with relevant document for our necessary action. Further, kindly update your contact details on regular basis so that you may keep on receiving EI communications. Also, kindly ensure submission of your Audited Annual Report on yearly basis to enable us update your latest financial data.

Please note that this enlistment is subject to satisfactory execution of orders in delivery and quality of above items when ordered for various projects of EI/our clients. You are expected to adopt ethics of highest standard and a very high degree of integrity, commitment & sincerity towards the work undertaken for projects under EI, execution, failing which, EI shall be entitled to initiate actions as specified in EI procedure for Suspension/Barring of business dealings, displayed on EI website.

Shashi Nath Mishra
Director, Engineering Division
Engineers India Limited
New Delhi-110 006

Sheet 1 of 2

IBR Certificate

Govt. of Punjab
Department of Industries & Commerce, Punjab
Office of Director of Boilers, Punjab, Jalandhar
Tel: 0181-2666982

Ref: DOB/IB/IAU/Approval/ 2446

To: M/s. Vijay Cycle and Steel Industries,
A-8, A-9, Focal Point
Jalandhar.

Subject: Regarding manufacturing of Forged Steel Pipe Fittings under I.B.R. 1950.

Reference your application letter No. M/S/V/008/2020-21 dated 13.10.2020 and in continuation of this office permission letter No. DOB/IB/IAU/3458 dt:10.10.2020.

In the regard your unit was visited for verification at Manufactures of Forged Steel Pipe Fittings at per requirements of Indian Boiler Regulations, 1950 with the following conditions:-

- The drawings should be got approved in advance from this office.
- Manufacturing should be done in accordance with provision of I.B.R. 1950.
- Proper record of testing and inspection to be maintained in accordance with I.B.R. 1950.
- Proper test equipment should be maintained to facilitate inspection of product by representative of this office.
- Finished goods to be dispatched only after getting the complete management inspected by this office and the lot should be IBR stamped by the Inspecting Officer alongwith Test Certificate.
- If at any stage the workmanship is found defective, this office reserves the right to revoke the permission granted in your favour.
- Any violation of provisions of act/regulation may lead to disqualification.

Shashi Nath Mishra
Director of Boilers, Punjab
Jalandhar

An ISO 14001 : 2015 Certified Co.

IRCLASS
SYSTEMS AND SOLUTIONS PRIVATE LIMITED

CERTIFICATE OF APPROVAL
Issued by Indian Register Quality Systems
(A Division of IRCLASS Systems and Solutions Private Limited)

This is to certify that the Environmental Management Systems of

Organisation: Vijay Cycle and Steel Industries

Address: A-8 & A-9, Focal Point,
Jalandhar - 144 004,
Punjab

has been assessed and found conforming to the following requirement

Standard: ISO 14001:2015

Scope: Manufacture and Supply of Forged Steel Pipe Fittings and Forged Parts

Certificate No.: IRQS/190300266

Shashi Nath Mishra
Head IRQS

The approval is subject to continuous satisfactory maintenance of the Environmental Management System of the organization to the standard, which will be monitored by IRQS. The use of the IRCLASS Mark indicates accreditation with regular surveillance by IRQS.

Head Office: 52A, Adi Shankaracharya Marg, Opp. Powai Lake, Powai, Mumbai - 400 072, India.

Certificates



TUV Nord



An ISO 45001 : 2018 Certified Co.



An ISO 9001 : 2015 Certified Co.





**Forged Steel
High Pressure Socket Weld
Pipe Fittings 3000 Lbs.**



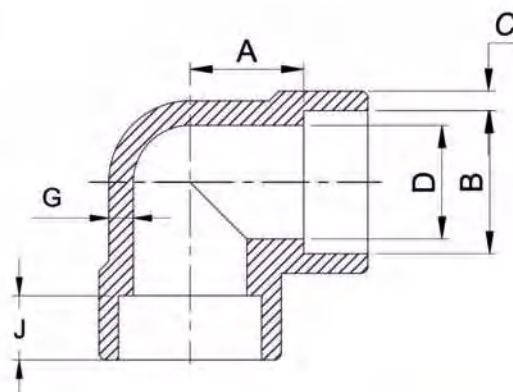
**THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES**

Art No- 3001

Socket Weld Elbow 90°

Forged 3000 LBS BLACK

Manufacturing 'VS' pipe fittings for big chemical and pharmaceutical industries asks for perfection. Our socket welding elbow live up to the required standards of perfection in quality and endurance.



A structure of application - Reaction Tank



Class Designation: 3000 Lbs				Dimensions As Per ASME B16.11-2011/ IS: 4712: 2011 (Class 20)						
Nominal Size		Socket Bore Dia B		Bore Dia of Fitting Dia D		Socket Wall Thickness C	MIN. Depth of socket J	Center to Bottom of Socket A		Body Wall Thickness G
Inch	MM	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Max.	Min.
1/8"	6.00	10.80	11.20	6.10	7.60	3.18	10.50	11.00	12.00	2.41
1/4"	8.00	14.20	14.60	8.50	10.00	3.30	10.50	11.00	12.00	3.02
3/8"	10.00	17.60	18.00	11.80	13.30	3.50	10.50	13.50	15.00	3.20
1/2"	15.00	21.80	22.20	15.00	16.60	4.09	10.50	15.50	17.00	3.73
3/4"	20.00	27.20	27.60	20.20	21.70	4.27	13.50	19.00	20.50	3.91
1"	25.00	33.90	34.30	25.90	27.40	4.98	13.50	22.50	24.00	4.55
1.1/4"	32.00	42.70	43.10	34.30	35.80	5.28	13.50	27.00	29.00	4.85
1.1/2"	40.00	48.80	49.20	40.10	41.60	5.54	13.50	32.00	34.00	5.08
2"	50.00	61.20	61.70	51.70	53.30	6.04	17.00	38.00	40.00	5.54
2.1/2"	65.00	73.90	74.40	61.20	64.20	7.67	18.00	42.00	43.50	7.01
3"	80.00	89.80	90.30	76.40	79.40	8.30	18.00	57.00	59.50	7.62
4"	100.00	115.20	115.70	100.70	103.80	9.35	19.00	66.50	68.00	8.56

Art No. VS-3002

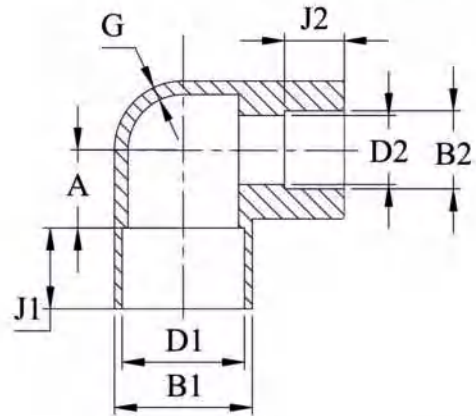
Reducing socket weld elbow 90°

Forged 3000 LBS BLACK

The aviation asks for nothing less than perfection & we provide perfection in every piece branded 'VS'



THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES



A structure of application - Aviation Industry

Class Designation: 3000 Lbs

Dimensions 'VS' Reducing Socket Weld Elbow

Nominal Size		Socket Bore Dia B1		Socket Bore Dia B2		Bore Dia of Fitting Dia D1		Bore Dia of Fitting Dia D2		Socket Wall Thickness C	Depth of socket (J)		Center to Bottom of Socket A		Body Wall Thickness G
Inch	MM	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	J1	J2	Min.	Max.	Min.
1/4"x1/8"	8x6	14.20	14.60	10.80	11.20	8.50	10.00	6.10	7.60	3.78	10.50	10.50	10.00	12.00	3.02
3/8"x1/4"	10x8	17.60	18.00	14.20	14.60	11.80	13.30	8.50	10.00	4.01	10.50	10.50	12.00	15.00	3.20
1/2"x3/8"	15x10	21.80	22.00	17.60	18.00	15.00	16.60	11.80	13.30	4.67	10.50	10.50	14.00	17.00	3.73
3/4"x1/2"	20x15	27.20	27.60	21.80	22.20	20.20	21.70	15.00	16.60	4.90	13.50	10.50	18.00	21.00	3.91
1"x1/2"	25x15	33.90	34.30	21.80	22.20	25.90	27.40	15.00	16.60	5.69	13.50	10.50	20.00	24.00	4.55
1"x3/4"	25x20	33.90	34.30	27.20	27.60	25.90	27.40	20.20	21.70	5.69	13.50	13.50	20.00	24.00	4.55
1.1/4"x3/4"	32x20	42.70	43.10	27.20	27.60	34.30	35.80	20.20	21.70	6.07	13.50	13.50	25.00	29.00	4.85
1.1/4"x1"	32x25	42.70	43.10	33.90	34.30	34.30	35.80	25.90	27.40	6.07	13.50	13.50	25.00	29.00	4.85
1.1/2"x1"	40x25	48.80	49.20	33.90	34.30	40.10	41.60	25.90	27.40	6.35	13.50	13.50	30.00	34.00	5.08
1.1/2"x1.1/4"	40x32	48.80	49.20	42.70	43.10	40.10	41.60	34.30	35.80	6.35	13.50	13.50	30.00	34.00	5.08
2"x1.1/4"	50x32	61.20	61.70	42.70	43.10	51.70	53.30	34.30	35.80	6.93	16.00	13.50	35.00	40.00	5.54
2"x1.1/2"	50x40	61.20	61.70	48.80	49.20	51.70	53.30	40.10	41.60	6.93	16.00	13.50	36.00	40.00	5.54
2.1/2"x1.1/2"	65x40	73.20	74.40	48.80	49.20	61.20	64.20	40.10	41.60	8.76	16.00	13.50	38.50	43.50	7.01
2.1/2"x2"	65x50	73.20	74.40	61.20	61.70	61.20	64.20	51.70	53.30	8.76	16.00	16.00	38.50	43.50	7.01
3"x2.1/2"	80x65	89.80	90.30	73.90	74.40	76.40	79.40	61.20	64.20	9.52	16.00	16.00	54.50	59.50	7.62
3"x2"	80x50	89.80	90.30	61.20	61.70	76.40	79.40	51.70	53.30	9.52	16.00	16.00	54.50	59.50	7.62

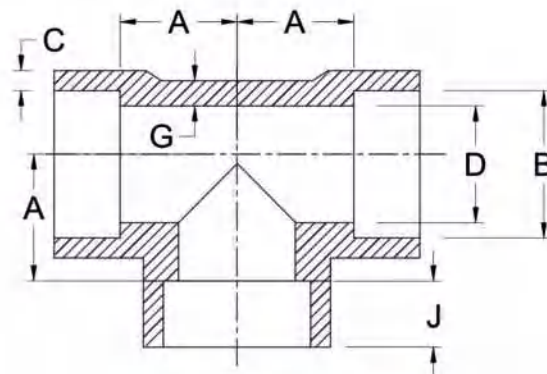
Art No- 3003

Socket Weld Tee

Forged 3000 LBS BLACK



These 'VS' fittings are used in steam run applications like turbines and boilers because of their strength to curtail high pressures.



A structure of application - Steam Turbine



Class Designation: 3000 Lbs				Dimensions As Per ASME B16.11-2011/ IS: 4712: 2011 (Class 20)						
Nominal Size		Socket Bore Dia B		Bore Dia of Fitting Dia D		Socket Wall Thickness C	MIN. Depth of socket J	Center to Bottom of Socket A		Body Wall Thickness G
Inch	MM	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Max.	Min.
1/8"	6.00	10.80	11.20	6.10	7.60	3.18	10.50	11.00	12.00	2.41
1/4"	8.00	14.20	14.60	8.50	10.00	3.30	10.50	11.00	12.00	3.02
3/8"	10.00	17.60	18.00	11.80	13.30	3.50	10.50	13.50	15.00	3.20
1/2"	15.00	21.80	22.20	15.00	16.60	4.09	10.50	15.50	17.00	3.73
3/4"	20.00	27.20	27.60	20.20	21.70	4.27	13.50	19.00	20.50	3.91
1"	25.00	33.90	34.30	25.90	27.40	4.98	13.50	22.50	24.00	4.55
1.1/4"	32.00	42.70	43.10	34.30	35.80	5.28	13.50	27.00	29.00	4.85
1.1/2"	40.00	48.80	49.20	40.10	41.60	5.54	13.50	32.00	34.00	5.08
2"	50.00	61.20	61.70	51.70	53.30	6.04	17.00	38.00	40.00	5.54
2.1/2"	65.00	73.90	74.40	61.20	64.20	7.67	18.00	42.00	43.50	7.01
3"	80.00	89.80	90.30	76.40	79.40	8.30	18.00	57.00	59.50	7.62
4"	100.00	115.20	115.70	100.70	103.80	9.35	19.00	66.50	68.00	8.56

Art No. VS-3004

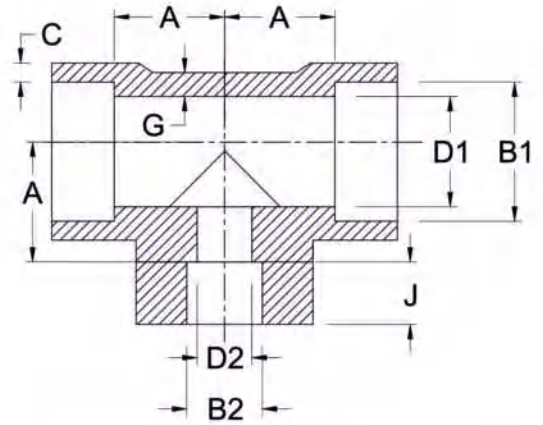
Reducing Socket Weld Tee

Forged 3000 LBS BLACK

These 'VS' fittings are synonymous to precision & they prove it in every field of application.



THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES



A structure of application - Ash Handling Plant

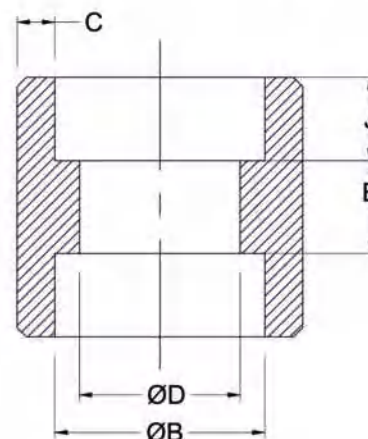
Class Designation: 3000 Lbs						Dimensions 'VS' Reducing Socket Weld Tee									
Nominal Size		Socket Bore Dia B1		Socket Bore Dia B2		Bore Dia of Fitting Dia D1		Bore Dia of Fitting Dia D2		Socket Wall Thickness C	Depth of socket (J)		Center to Bottom of Socket A		Body Wall Thickness G
Inch	MM	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	J1	J2	Min.	Max.	Min.
1/4"x1/8"	8x6	14.20	14.60	10.80	11.20	8.50	10.00	6.10	7.60	3.78	10.50	10.50	10.00	12.00	3.02
3/8"x1/4"	10x8	17.60	18.00	14.20	14.60	11.80	13.30	8.50	10.00	4.01	10.50	10.50	12.00	15.00	3.20
1/2"x3/8"	15x10	21.80	22.00	17.60	18.00	15.00	16.60	11.80	13.30	4.67	10.50	10.50	14.00	17.00	3.73
3/4"x1/2"	20x15	27.20	27.60	21.80	22.20	20.20	21.70	15.00	16.60	4.90	13.50	10.50	18.00	21.00	3.91
1"x1/2"	25x15	33.90	34.30	21.80	22.20	25.90	27.40	15.00	16.60	5.69	13.50	10.50	20.00	24.00	4.55
1"x3/4"	25x20	33.90	34.30	27.20	27.60	25.90	27.40	20.20	21.70	5.69	13.50	13.50	20.00	24.00	4.55
1.1/4"x3/4"	32x20	42.70	43.10	27.20	27.60	34.30	35.80	20.20	21.70	6.07	13.50	13.50	25.00	29.00	4.85
1.1/4"x1"	32x25	42.70	43.10	33.90	34.30	34.30	35.80	25.90	27.40	6.07	13.50	13.50	25.00	29.00	4.85
1.1/2"x1"	40x25	48.80	49.20	33.90	34.30	40.10	41.60	25.90	27.40	6.35	13.50	13.50	30.00	34.00	5.08
1.1/2"x1.1/4"	40x32	48.80	49.20	42.70	43.10	40.10	41.60	34.30	35.80	6.35	13.50	13.50	30.00	34.00	5.08
2"x1.1/4"	50x32	61.20	61.70	42.70	43.10	51.70	53.30	34.30	35.80	6.93	16.00	13.50	35.00	40.00	5.54
2"x1.1/2"	50x40	61.20	61.70	48.80	49.20	51.70	53.30	40.10	41.60	6.93	16.00	13.50	36.00	40.00	5.54
2.1/2"x1.1/2"	65x40	73.20	74.40	48.80	49.20	61.20	64.20	40.10	41.60	8.76	16.00	13.50	38.50	43.50	7.01
2.1/2"x2"	65x50	73.20	74.40	61.20	61.70	61.20	64.20	51.70	53.30	8.76	16.00	16.00	38.50	43.50	7.01
3"x2.1/2"	80x65	89.80	90.30	73.90	74.40	76.40	79.40	61.20	64.20	9.52	16.00	16.00	54.50	59.50	7.62
3"x2"	80x50	89.80	90.30	61.20	61.70	76.40	79.40	51.70	53.30	9.52	16.00	16.00	54.50	59.50	7.62

Art No- 3005

Socket Weld Socket

Forged 3000 LBS BLACK

Rigidity is the key word for manufacturing 'VS' fittings for steam hammer. These set the standards of perfection in quality and endurance.



A structure of application - Steam Hammer

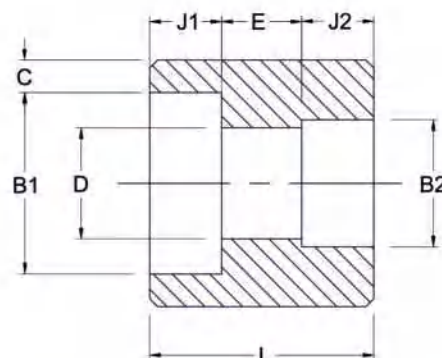
Class Designation: 3000 Lbs				Dimensions As Per ASME B16.11-2011/ IS: 4712: 2011 (Class 20)					
Nominal Size		Socket Bore Dia B		Bore Dia of Fitting Dia D		Socket Wall Thickness C	MIN. Depth of socket J	Laying Length E	
Inch	MM	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Max.
1/8"	6	10.80	11.20	6.10	7.60	3.18	10.50	5.00	8.00
1/4"	8	14.20	14.60	8.50	10.00	3.30	10.50	5.00	8.00
3/8"	10	17.60	18.00	11.80	13.30	3.50	10.50	5.00	9.00
1/2"	15	21.80	22.20	15.00	16.60	4.09	10.50	6.50	12.50
3/4"	20	27.20	27.60	20.20	21.70	4.27	13.50	6.50	12.50
1"	25	33.90	34.30	25.90	27.40	4.98	13.50	8.50	16.50
1.1/4"	32	42.70	43.10	34.30	35.80	5.28	13.50	8.50	16.50
1.1/2"	40	48.80	49.20	40.10	41.60	5.54	13.50	8.50	16.50
2"	50	61.20	61.70	51.70	53.30	6.04	17.00	15.00	23.00
2.1/2"	65	73.90	74.40	61.20	64.20	7.67	18.00	15.00	23.00
3"	80	89.80	90.30	76.40	79.40	8.30	18.00	15.00	23.00
4"	100	115.20	115.70	100.70	103.80	9.35	19.00	15.00	23.00

Art No. VS- 3006

Reducing Socket Weld Socket/ Coupling

Forged 3000 LBS BLACK

Manufacturing 'VS' pipe fittings for the big industries units asks for perfection. Our fittings live up to those standards.



A structure of application - Desalination Plant

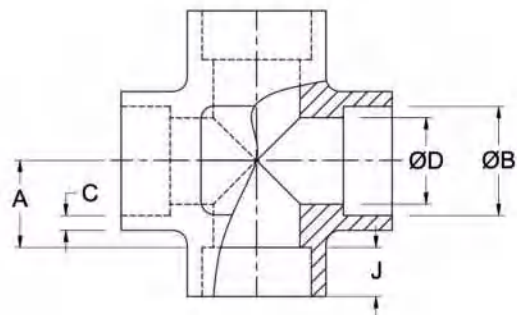
Class Designation: 3000 Lbs				Dimensions 'VS' Reducing Socket Weld Socket/Coupling								
Nominal Size		Socket Bore Dia B1		Socket Bore Dia B2		Bore Dia of Fitting D		Socket Wall Thickness C	Depth of socket (J)		Laying Length E	
Inch	MM	Min.	Max.	Min.	Max.	Min.	Max.	Min.	J1	J2	Min.	Max.
1/4"x1/8"	8x6	14.20	14.60	10.80	11.20	6.10	7.60	3.78	10.50	10.50	5.00	8.00
3/8"x1/4"	10x8	17.60	18.00	14.20	14.60	8.50	10.00	4.01	10.50	10.50	5.00	9.00
1/2"x3/8"	15x10	21.80	22.00	17.60	18.00	11.80	13.30	4.67	10.50	10.50	6.00	13.00
3/4"x1/2"	20x15	27.20	27.60	21.80	22.20	15.00	16.60	4.90	13.50	10.50	6.00	13.00
1"x1/2"	25x15	33.90	34.30	21.80	22.20	15.00	16.60	5.69	13.50	10.50	9.00	17.00
1"x3/4"	25x20	33.90	34.30	27.20	27.60	20.20	21.70	5.69	13.50	13.50	9.00	17.00
1.1/4"x3/4"	32x20	42.70	43.10	27.20	27.60	20.20	21.70	6.07	13.50	13.50	9.00	17.00
1.1/4"x1"	32x25	42.70	43.10	33.90	34.30	25.90	27.40	6.07	13.50	13.50	9.00	17.00
1.1/2"x1"	40x25	48.80	49.20	33.90	34.30	25.90	27.40	6.35	13.50	13.50	9.00	17.00
1.1/2"x1.1/4"	40x32	48.80	49.20	42.70	43.10	34.30	35.80	6.35	13.50	13.50	9.00	17.00
2"x1.1/4"	50x32	61.20	61.70	42.70	43.10	34.30	35.80	6.93	16.00	13.50	15.00	23.00
2"x1.1/2"	50x40	61.20	61.70	48.80	49.20	40.10	41.60	6.93	16.00	13.50	15.00	23.00
2.1/2"x2"	65x50	73.20	74.40	61.20	61.70	51.70	53.30	8.76	16.00	16.00	15.00	23.00
2.1/2"x1.1/2"	65x40	73.20	74.40	48.80	49.20	40.10	41.60	8.76	16.00	13.50	15.00	23.00
3"x2.1/2"	80x65	89.80	90.30	73.90	74.40	61.20	64.20	9.52	16.00	16.00	15.00	23.00
3"x2"	80x50	89.80	90.30	61.20	61.70	51.70	53.30	9.52	16.00	16.00	15.00	23.00

Art. No. 3007

Socket Weld Cross

Forged 3000 LBS BLACK

Ship building industries all over India rely on 'VS' fittings for pipe line layout in ship building applications.



A structure of application - Boiler

Class Designation: 3000 Lbs				Dimensions as per ASME B 16.11-2011/ IS 4712: 2011 (Class 20)						
Nominal Size		Socket Bore Dia B		Bore Dia of Fitting D		Socket Wall Thickness C	MIN. Depth of socket J	Center to Bottom of Socket A		Body Wall Thickness G
Inch	MM	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Max.	Min.
1/8"	6.00	10.80	11.20	6.10	7.60	3.18	10.50	11.00	12.00	2.41
1/4"	8.00	14.20	14.60	8.50	10.00	3.30	10.50	11.00	12.00	3.02
3/8"	10.00	17.60	18.00	11.80	13.30	3.50	10.50	13.50	15.00	3.20
1/2"	15.00	21.80	22.20	15.00	16.60	4.09	10.50	15.50	17.00	3.73
3/4"	20.00	27.20	27.60	20.20	21.70	4.27	13.50	19.00	20.50	3.91
1"	25.00	33.90	34.30	25.90	27.40	4.98	13.50	22.50	24.00	4.55
1.1/4"	32.00	42.70	43.10	34.30	35.80	5.28	13.50	27.00	29.00	4.85
1.1/2"	40.00	48.80	49.20	40.10	41.60	5.54	13.50	32.00	34.00	5.08
2"	50.00	61.20	61.70	51.70	53.30	6.04	17.00	38.00	40.00	5.54
2.1/2"	65.00	73.90	74.40	61.20	64.20	7.67	18.00	42.00	43.50	7.01
3"	80.00	89.80	90.30	76.40	79.40	8.30	18.00	57.00	59.50	7.62
4"	100.00	115.20	115.70	100.70	103.80	9.35	19.00	66.50	69.00	8.56

Art No. VS- 3008

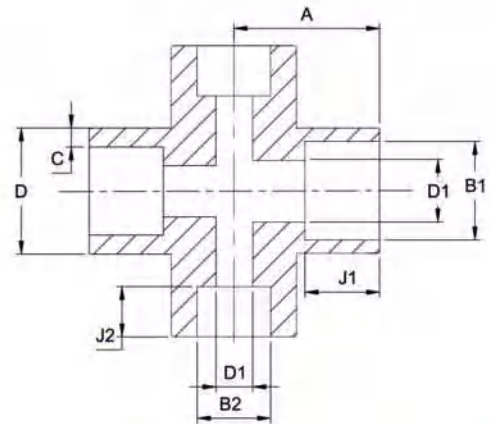
Reducing Socket Weld Cross

Forged 3000 LBS BLACK

These 'VS' fittings are synonymous to precision & they prove it in every field of application.



THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES



A structure of application - Ash Handling Plant

Class Designation: 3000 Lbs						Dimensions 'VS' Reducing Socket Weld Cross									
Nominal Size		Socket Bore Dia B1		Socket Bore Dia B2		Bore Dia of Fitting Dia D1		Bore Dia of Fitting Dia D2		Socket Wall Thickness C	Depth of socket (J)		Center to Bottom of Socket A		Body Wall Thickness G
Inch	MM	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	J1	J2	Min.	Max.	Min.
1/4"x1/8"	8x6	14.20	14.60	10.80	11.20	8.50	10.00	6.10	7.60	3.78	10.50	10.50	10.00	12.00	3.02
3/8"x1/4"	10x8	17.60	18.00	14.20	14.60	11.80	13.30	8.50	10.00	4.01	10.50	10.50	12.00	15.00	3.20
1/2"x3/8"	15x10	21.80	22.00	17.60	18.00	15.00	16.60	11.80	13.30	4.67	10.50	10.50	14.00	17.00	3.73
3/4"x1/2"	20x15	27.20	27.60	21.80	22.20	20.20	21.70	15.00	16.60	4.90	13.50	10.50	18.00	21.00	3.91
1"x1/2"	25x15	33.90	34.30	21.80	22.20	25.90	27.40	15.00	16.60	5.69	13.50	10.50	20.00	24.00	4.55
1"x3/4"	25x20	33.90	34.30	27.20	27.60	25.90	27.40	20.20	21.70	5.69	13.50	13.50	20.00	24.00	4.55
1.1/4"x3/4"	32x20	42.70	43.10	27.20	27.60	34.30	35.80	20.20	21.70	6.07	13.50	13.50	25.00	29.00	4.85
1.1/4"x1"	32x25	42.70	43.10	33.90	34.30	34.30	35.80	25.90	27.40	6.07	13.50	13.50	25.00	29.00	4.85
1.1/2"x1"	40x25	48.80	49.20	33.90	34.30	40.10	41.60	25.90	27.40	6.35	13.50	13.50	30.00	34.00	5.08
1.1/2"x1.1/4"	40x32	48.80	49.20	42.70	43.10	40.10	41.60	34.30	35.80	6.35	13.50	13.50	30.00	34.00	5.08
2"x1.1/4"	50x32	61.20	61.70	42.70	43.10	51.70	53.30	34.30	35.80	6.93	16.00	13.50	35.00	40.00	5.54
2"x1.1/2"	50x40	61.20	61.70	48.80	49.20	51.70	53.30	40.10	41.60	6.93	16.00	13.50	36.00	40.00	5.54
2.1/2"x1.1/2"	65x40	73.20	74.40	48.80	49.20	61.20	64.20	40.10	41.60	8.76	16.00	13.50	38.50	43.50	7.01
2.1/2"x2"	65x50	73.20	74.40	61.20	61.70	61.20	64.20	51.70	53.30	8.76	16.00	16.00	38.50	43.50	7.01
3"x2.1/2"	80x65	89.80	90.30	73.90	74.40	76.40	79.40	61.20	64.20	9.52	16.00	16.00	54.50	59.50	7.62
3"x2"	80x50	89.80	90.30	61.20	61.70	76.40	79.40	51.70	53.30	9.52	16.00	16.00	54.50	59.50	7.62

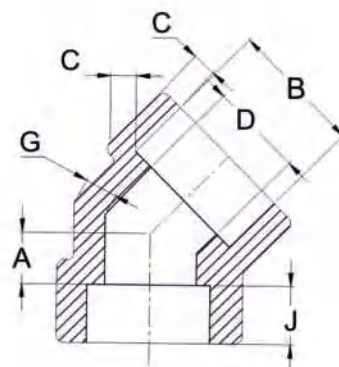
Art No- VS- 3009

Socket Weld Elbow 45°

Forged 3000 LBS BLACK



'VS' fittings are being used in textile Industries also. Our socket weld elbow is a versatile component on almost every type of pipeline for plugging fluid flow.



A structure of application - Refinery

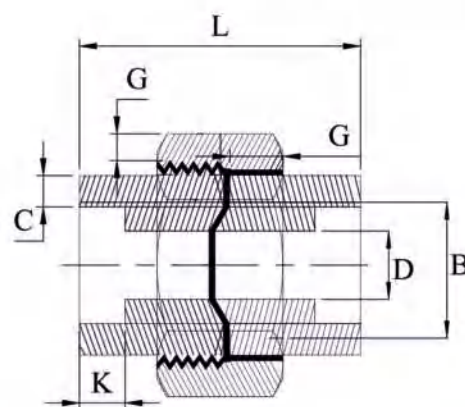
Class Designation: 3000 Lbs				Dimensions as per ASME B 16.11-2011/ IS 4712: 2011 (Class 20)						
Nominal Size		Socket Bore Dia B		Bore Dia of Fitting D		Socket Wall Thickness C	MIN. Depth of socket J	Center to Bottom of Socket A		Body Wall Thickness G
Inch	MM	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Max.	Min.
1/8"	6.00	10.80	11.20	6.10	7.60	3.18	10.50	8.00	9.00	2.41
1/4"	8.00	14.20	14.60	8.50	10.00	3.30	10.50	8.00	9.00	3.02
3/8"	10.00	17.60	18.00	11.80	13.30	3.50	10.50	8.00	9.50	3.20
1/2"	15.00	21.80	22.20	15.00	16.60	4.09	10.50	11.00	12.50	3.73
3/4"	20.00	27.20	27.60	20.20	21.70	4.27	13.50	13.00	14.50	3.91
1"	25.00	33.90	34.30	25.90	27.40	4.98	13.50	14.00	16.00	4.55
1.1/4"	32.00	42.70	43.10	34.30	35.80	5.28	13.50	17.50	19.50	4.85
1.1/2"	40.00	48.80	49.20	40.10	41.60	5.54	13.50	20.50	22.50	5.08
2"	50.00	61.20	61.70	51.70	53.30	6.04	17.00	25.50	27.50	5.54
2.1/2"	65.00	73.90	74.40	61.20	64.20	7.67	18.00	28.50	31.00	7.01
3"	80.00	89.80	90.30	76.40	79.40	8.30	18.00	32.00	34.50	7.62
4"	100.00	115.20	115.70	100.70	103.80	9.35	19.00	41.00	43.00	8.56

Art No- 3010

Socket Weld Union

Forged 3000 LBS BLACK

'VS' fittings are being used in textile Industries also. Our socket weld union is a versatile component on almost every type of pipeline for plugging of fluid flow.



A structure of application - Shipping

Class Designation: 3000 Lbs				Dimensions As Per MSS-SP-83-2006					
Nominal Size		Socket Bore Dia B		Water Way Bore D		Socket Wall Thickness C	Depth of socket K	Nut G	Length Assem. L
Inch	MM	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Min.
1/4"	8.00	14.10	14.61	8.48	10.01	3.30	9.70	3.18	45.00
3/8"	10.00	17.53	18.03	11.76	13.28	3.51	9.70	3.43	50.00
1/2"	15.00	21.72	22.23	15.04	16.56	4.09	9.70	3.68	50.00
3/4"	20.00	27.05	27.56	20.17	21.69	4.27	12.70	4.06	60.00
1"	25.00	33.78	34.29	25.88	27.41	4.98	12.70	4.45	65.00
1 1/4"	32.00	42.55	43.05	34.29	35.81	5.28	12.70	5.21	75.00
1 1/2"	40.00	48.64	49.15	40.13	41.66	5.54	12.70	4.59	80.00
2"	50.00	61.11	61.62	51.74	63.26	6.05	15.70	6.35	90.00
2 1/2"	65.00	73.81	74.45	61.19	64.24	7.67	15.70	7.11	103.00
3"	80.00	89.78	90.42	76.40	79.45	8.30	15.70	8.00	108.90



**Forged Steel
High Pressure Socket Weld
Pipe Fittings 6000 Lbs.**



**THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES**

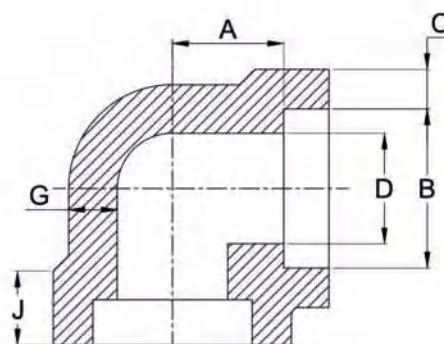
Art. No. VS 6001

Socket Weld Elbow 90°

Forged 6000 LBS BLACK



'VS' fittings are being used in textile Industries also. Our socket weld elbow is a versatile component on almost every type of pipeline for plugging of fluid flow.



A structure of application - Refinery



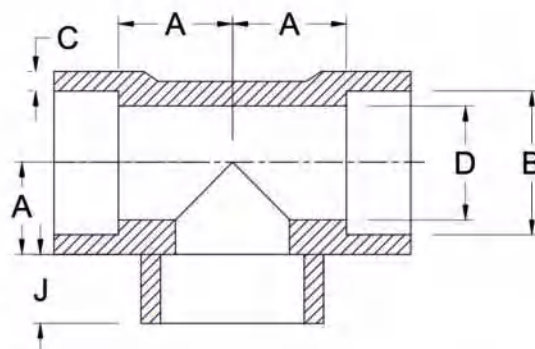
Class Designation: 6000 Lbs				Dimensions as per ASME B 16.11-2011/ IS 4712: 2011 (Class 40)						
Nominal Size		Socket Bore Dia B		Bore Dia of Fitting D		Socket Wall Thickness C	MIN. Depth of socket J	Center to Bottom of Socket A		Body Wall Thickness G
Inch	MM	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Max.	Min.
1/8"	6.00	10.80	11.20	3.20	4.80	3.43	9.50	11.00	12.00	3.15
1/4"	8.00	14.20	14.60	5.60	7.10	4.01	9.50	13.50	15.00	3.68
3/8"	10.00	17.60	18.00	8.40	9.90	4.37	9.50	15.50	17.00	4.01
1/2"	15.00	21.80	22.20	11.00	12.50	5.18	9.50	19.00	20.50	4.78
3/4"	20.00	27.20	27.60	14.80	16.30	6.04	12.50	22.50	24.50	5.56
1"	25.00	33.90	34.30	19.90	21.50	6.93	12.50	27.00	29.00	6.35
1.1/4"	32.00	42.70	43.10	28.70	30.20	6.93	12.50	32.00	34.00	6.35
1.1/2"	40.00	48.80	49.20	33.20	34.70	7.80	12.50	38.00	40.00	7.14
2"	50.00	61.20	61.70	42.10	43.60	9.50	16.00	41.00	43.50	8.74
2.1/2"	65.00	73.90	74.40	52.45	54.95	11.50	16.00	47.30	51.00	10.61
3"	80.00	88.90	90.40	62.40	65.00	13.20	16.00	66.50	71.10	11.88
4"	100.00	115.20	115.70	80.60	83.50	15.10	19.00	85.50	91.20	13.86

Art No. VS-6002

Socket Weld Tee (6000 lbs)

Forged 6000 LBS BLACK

'VS' fittings are being used in textile Industries also. Our socket weld tee is a versatile component on almost every type of pipeline for plugging of fluid flow.



A structure of application - Aviation Industry

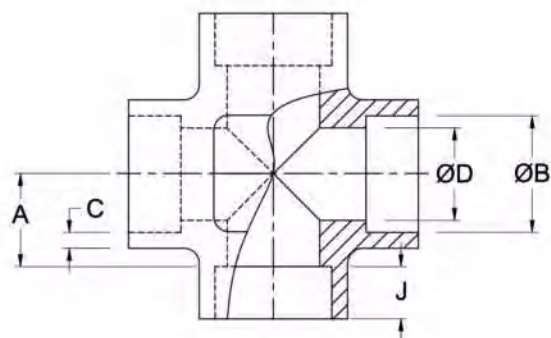
Class Designation: 6000 Lbs				Dimensions as per ASME B 16.11-2011/ IS 4712: 2011 (Class 40)						
Nominal Size		Socket Bore Dia B		Bore Dia of Fitting D		Socket Wall Thickness C	MIN. Depth of socket J	Center to Bottom of Socket A		Body Wall Thickness G
Inch	MM	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Max.	Min.
1/8"	6.00	10.80	11.20	3.20	4.80	3.96	10.50	11.00	12.00	3.15
1/4"	8.00	14.20	14.60	5.60	7.10	4.60	10.50	13.50	15.00	3.68
3/8"	10.00	17.60	18.00	8.40	9.90	5.03	10.50	15.50	17.00	4.01
1/2"	15.00	21.80	22.20	11.00	12.50	5.97	10.50	19.00	20.50	4.78
3/4"	20.00	27.20	27.60	14.80	16.30	6.96	13.50	22.50	24.50	5.56
1"	25.00	33.90	34.30	19.90	21.50	7.92	13.50	27.00	29.00	6.35
1.1/4"	32.00	42.70	43.10	28.70	30.20	7.92	13.50	32.00	34.00	6.35
1.1/2"	40.00	48.80	49.20	33.20	34.70	8.92	13.50	38.00	40.00	7.14
2"	50.00	61.20	61.70	42.10	43.60	10.92	16.00	41.00	43.50	8.74
2.1/2"	65.00	73.90	74.40	52.45	54.95	11.50	16.00	47.30	51.00	10.61
3"	80.00	88.90	90.40	62.40	65.00	13.20	16.00	66.50	71.10	11.88
4"	100.00	115.20	115.70	80.60	83.50	15.10	19.00	85.50	91.20	13.86

Art No- 6003

Socket Weld Cross (6000 lbs)

Forged 6000 LBS BLACK

Ship building industries all over India rely on 'VS' fittings for the pipe line layout in ship building application.



A structure of application - Ash Handling Plant



Class Designation: 6000 Lbs				Dimensions as per ASME B 16.11-2011/ IS 4712: 2011 (Class 40)						
Nominal Size		Socket Bore Dia B		Bore Dia of Fitting D		Socket Wall Thickness C	MIN. Depth of socket J	Center to Bottom of Socket A		Body Wall Thickness G
Inch	MM	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Max.	Min.
1/8"	6.00	10.80	11.20	3.20	4.80	3.96	10.50	11.00	12.00	3.15
1/4"	8.00	14.20	14.60	5.60	7.10	4.60	10.50	13.50	15.00	3.68
3/8"	10.00	17.60	18.00	8.40	9.90	5.03	10.50	15.50	17.00	4.01
1/2"	15.00	21.80	22.20	11.00	12.50	5.97	10.50	19.00	20.50	4.78
3/4"	20.00	27.20	27.60	14.80	16.30	6.96	13.50	22.50	24.50	5.56
1"	25.00	33.90	34.30	19.90	21.50	7.92	13.50	27.00	29.00	6.35
1.1/4"	32.00	42.70	43.10	28.70	30.20	7.92	13.50	32.00	34.00	6.35
1.1/2"	40.00	48.80	49.20	33.20	34.70	8.92	13.50	38.00	40.00	7.14
2"	50.00	61.20	61.70	42.10	43.60	10.92	16.00	41.00	43.50	8.74
2.1/2"	65.00	73.90	74.40	52.45	54.95	11.50	16.00	47.30	51.00	10.61
3"	80.00	88.90	90.40	62.40	65.00	13.20	16.00	66.50	71.10	11.88
4"	100.00	115.20	115.70	80.60	83.50	15.10	19.00	85.50	91.20	13.86

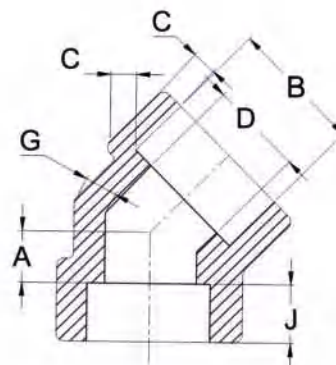
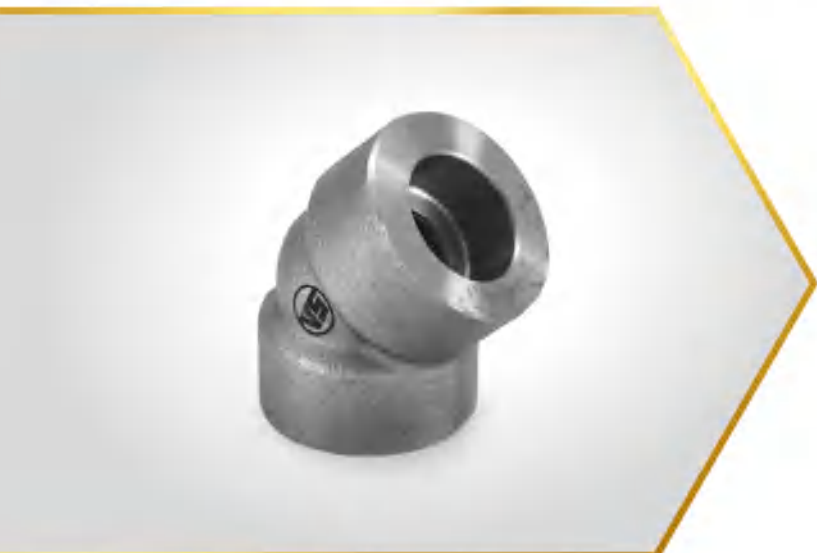
Art No- 6004

Socket Weld Elbow 45°

Forged 6000 LBS BLACK



'VS' fittings are being used in textile Industries also. Our socket weld elbow is a versatile component on almost every type of pipeline for plugging of fluid flow.



A structure of application - Steam Turbine

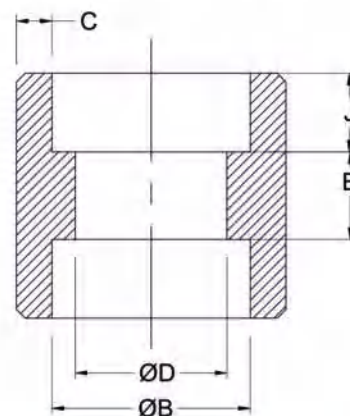
Class Designation: 6000 Lbs				Dimensions as per ASME B 16.11-2011/ IS 4712: 2011 (Class 40)						
Nominal Size		Socket Bore Dia B		Bore Dia of Fitting D		Socket Wall Thickness C	MIN. Depth of socket J	Center to Bottom of Socket A		Body Wall Thickness G
Inch	MM	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Max.	Min.
1/8"	6.00	10.80	11.20	3.20	4.80	3.96	10.50	7.00	9.00	3.15
1/4"	8.00	14.20	14.60	5.60	7.10	4.60	10.50	7.00	9.00	3.68
3/8"	10.00	17.60	18.00	8.40	9.90	5.03	10.50	9.50	12.50	4.01
1/2"	15.00	21.80	22.20	11.00	12.50	5.97	10.50	11.00	14.00	4.78
3/4"	20.00	27.20	27.60	14.80	16.30	6.96	13.50	12.50	15.50	5.56
1"	25.00	33.90	34.30	19.90	21.50	7.92	13.50	15.50	19.50	6.35
1.1/4"	32.00	42.70	43.10	28.70	30.20	7.92	13.50	18.50	22.50	6.35
1.1/2"	40.00	48.80	49.20	33.20	34.70	8.92	13.50	23.50	27.50	7.14
2"	50.00	61.20	61.70	42.10	43.60	10.92	17.00	26.50	30.50	8.74
2.1/2"	65.00	73.90	74.40	52.45	54.95	11.50	17.00	47.30	51.00	10.61
3"	80.00	89.90	90.40	62.40	65.00	13.20	17.00	54.50	58.20	11.88

Art No- VS-6005

Socket Weld Socket/ Coupling

Forged 6000 LBS BLACK

'VS' fittings are being used in textile Industries. Our socket weld socket/coupling is a versatile component on almost every type of pipeline for plugging of fluid flow



A structure of application - Refinery

Class Designation: 6000 Lbs				Dimensions as per ASME B 16.11-2011/ IS 4712: 2011 (Class 40)					
Nominal Size		Socket Bore Dia B		Bore Dia of Fitting D		Socket Wall Thickness C	MIN. Depth of socket J	Laying Length E	
Inch	MM	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Min.
1/8"	6.00	10.80	11.20	3.20	4.80	3.96	10.50	5.00	8.00
1/4"	8.00	14.20	14.60	5.60	7.10	4.60	10.50	5.00	8.00
3/8"	10.00	17.60	18.00	8.40	9.90	4.03	10.50	5.00	9.00
1/2"	15.00	21.80	22.20	11.00	12.50	5.97	10.50	6.50	12.50
3/4"	20.00	27.20	27.60	14.80	16.30	6.96	13.50	6.50	12.50
1"	25.00	33.90	34.30	19.90	21.50	7.92	13.50	8.50	16.50
1.1/4"	32.00	42.70	43.10	28.70	30.20	7.92	13.50	8.50	16.50
1.1/2"	40.00	48.80	49.20	33.20	34.70	8.92	13.50	8.50	16.50
2"	50.00	61.20	61.70	42.10	43.60	10.92	17.00	15.00	23.00
2.1/2"	65.00	73.90	74.40	52.45	54.95	11.50	17.00	15.00	24.00
3"	80.00	89.90	90.40	62.40	65.00	13.20	17.00	15.00	24.00
4"	100.00	115.20	115.70	80.60	83.50	15.10	19.00	15.00	24.00



**Forged Steel
High Pressure Socket Weld
Pipe Fittings 9000 Lbs.**



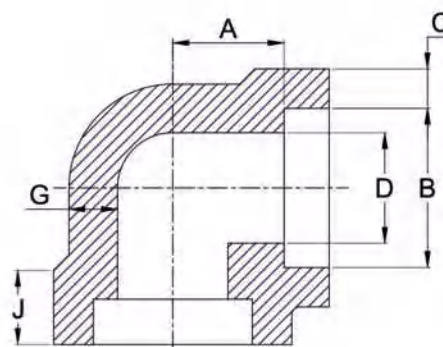
**THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES**

Art No- 9001

Socket Weld Elbow 90°

Forged 9000 LBS BLACK

'VS' fittings are being used in textile Industries. Our socket weld elbow is a versatile component on almost every type of pipeline for plugging of fluid flow



A structure of application - Refinery

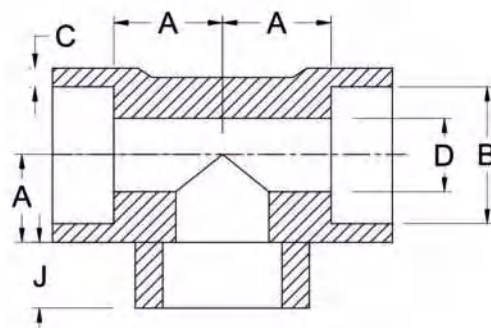
Class Designation: 9000 Lbs				Dimensions As Per ASME B 16.11-2011						
Nominal Size		Socket Bore Dia B		Bore Dia of Fitting D		Socket Wall Thickness C	MIN. Depth of socket J	Center to Bottom of Socket A		Body Wall Thickness G
Inch	MM	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Max.	Min.
1/2"	15.00	21.80	22.20	5.60	7.20	8.18	10.50	25.50	27.00	7.47
3/4"	20.00	27.20	27.60	10.30	11.80	8.56	13.50	28.50	30.00	7.82
1"	25.00	33.90	34.30	14.40	16.00	9.96	13.50	32.00	34.00	9.09
1.1/4"	32.00	42.70	43.10	22.00	23.50	10.62	13.50	35.00	37.00	9.70
1.1/2"	40.00	48.80	49.20	27.20	28.70	11.12	13.50	38.00	40.00	10.15
2"	50.00	61.20	61.70	37.40	38.90	12.12	17.00	54.00	56.00	11.07

Art No- 9002

Socket Weld Tee

Forged 9000 LBS BLACK

'VS' fittings are being used in textile Industries. Our socket weld Tee is a versatile component on almost every type of pipeline for plugging of fluid flow



A structure of application - Refinery



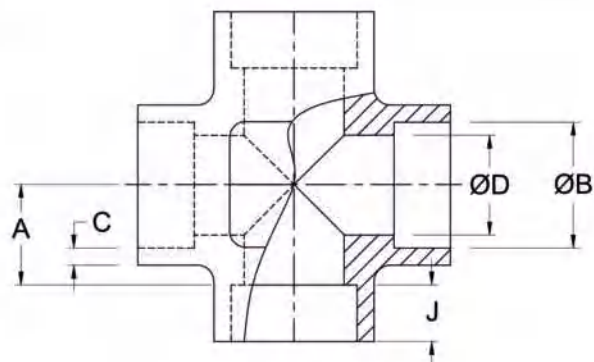
Class Designation: 9000 Lbs				Dimensions As Per ASME B 16.11-2011						
Nominal Size		Socket Bore Dia B		Bore Dia of Fitting D		Socket Wall Thickness C	MIN. Depth of socket J	Center to Bottom of Socket A		Body Wall Thickness G
Inch	MM	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Max.	Min.
1/2"	15.00	21.80	22.20	5.60	7.20	8.18	10.50	25.50	27.00	7.47
3/4"	20.00	27.20	27.60	10.30	11.80	8.56	13.50	28.50	30.00	7.82
1"	25.00	33.90	34.30	14.40	16.00	9.96	13.50	32.00	34.00	9.09
1.1/4"	32.00	42.70	43.10	22.00	23.50	10.62	13.50	35.00	37.00	9.70
1.1/2"	40.00	48.80	49.20	27.20	28.70	11.12	13.50	38.00	40.00	10.15
2"	50.00	61.20	61.70	37.40	38.90	12.12	17.00	54.00	56.00	11.07

Art No. 9003

Socket Weld Cross

Forged 9000 LBS BLACK

Ship building industries all over India rely on 'VS' fittings for pipe line layout in ship building applications.



A structure of application - Refinery

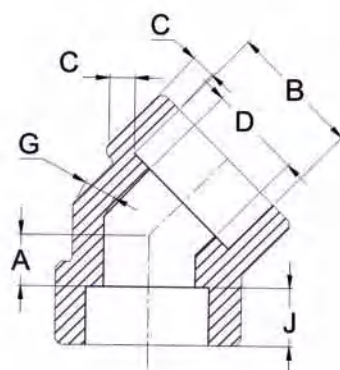
Class Designation: 9000 Lbs				Dimensions As Per ASME B 16.11-2011						
Nominal Size		Socket Bore Dia B		Bore Dia of Fitting D		Socket Wall Thickness C	MIN. Depth of socket J	Center to Bottom of Socket A		Body Wall Thickness G
Inch	MM	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Max.	Min.
1/2"	15.00	21.80	22.20	5.60	7.20	8.18	10.50	25.50	27.00	7.47
3/4"	20.00	27.20	27.60	10.30	11.80	8.56	13.50	28.50	30.00	7.82
1"	25.00	33.90	34.30	14.40	16.00	9.96	13.50	32.00	34.00	9.09
1.1/4"	32.00	42.70	43.10	22.00	23.50	10.62	13.50	35.00	37.00	9.70
1.1/2"	40.00	48.80	49.20	27.20	28.70	11.12	13.50	38.00	40.00	10.15
2"	50.00	61.20	61.70	37.40	38.90	12.12	17.00	54.00	56.00	11.07

Art No- 9004

Socket Weld Elbow 45°

Forged 9000 LBS BLACK

'VS' fittings are being used in textile Industries also. Our socket weld elbow is a versatile component on almost every type of pipeline for plugging of fluid flow.



A structure of application - Petrochemical

Class Designation: 9000 Lbs				Dimensions As Per ASME B 16.11-2011						
Nominal Size		Socket Bore Dia B		Bore Dia of Fitting D		Socket Wall Thickness C	MIN. Depth of socket J	Center to Bottom of Socket A		Body Wall Thickness G
Inch	MM	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Max.	Min.
1/2"	15.00	21.80	22.20	5.60	7.20	8.18	10.50	14.00	17.00	7.47
3/4"	20.00	27.20	27.60	10.30	11.80	8.56	13.50	17.50	20.50	7.82
1"	25.00	33.90	34.30	14.40	16.00	9.96	13.50	18.50	22.50	9.09
1.1/4"	32.00	42.70	43.10	22.00	23.50	10.62	13.50	20.50	24.50	9.70
1.1/2"	40.00	48.80	49.20	27.20	28.70	11.12	13.50	23.50	27.50	10.15
2"	50.00	61.20	61.70	37.40	38.90	12.12	17.00	26.50	30.50	11.07

Art No- VS- 9005

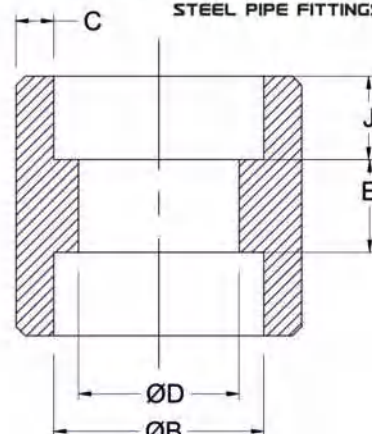
Socket Weld Socket / Coupling

Forged 9000 LBS BLACK

Rigidity is the key word for manufacturing 'VS' fittings for steam hammers. These set the standards of perfection in quality and endurance.



THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES



A structure of application - Reaction Tank

Class Designation: 9000 Lbs				Dimensions As Per ASME B 16.11-2011					
Nominal Size		Socket Bore Dia B		Water Way Bore D		Socket Wall Thickness C	Depth of socket J	Nut G	Laying Length E
Inch	MM	Min.	Max.	Min.	Max.	Min.	Min.	Min.	Min.
1/2"	15.00	21.80	22.20	5.60	7.20	8.18	10.50	6.50	12.50
3/4"	20.00	27.20	27.60	10.30	11.80	8.56	13.50	6.50	12.50
1"	25.00	33.90	34.30	14.40	16.00	9.96	13.50	8.50	16.50
1.1/4"	32.00	42.70	43.10	22.00	23.50	10.62	13.50	8.50	16.50
1.1/2"	40.00	48.80	49.20	27.20	28.70	11.12	13.50	8.50	16.50
2"	50.00	61.20	61.70	37.40	38.90	12.12	17.00	15.00	23.00



**Forged Steel
High Pressure Pipe Fittings
with Threaded End Connection
2000 Lbs, 3000 Lbs, 6000 Lbs.**



**THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES**

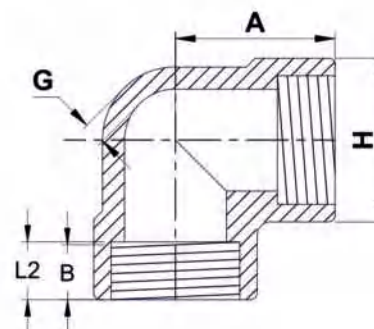
Art No- 2101

Threaded Elbow 90°

Forged 2000 LBS BLACK



'VS' fittings are being used in textile Industries also. Our threaded tee is a versatile component on almost every type of pipeline for plugging of fluid flow.



A structure of application - Steam Turbine

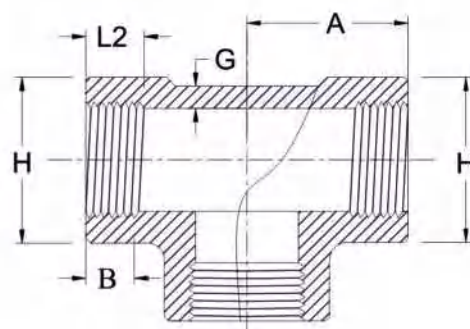
Class Designation: 2000 Lbs			Standard Reference: ASME B.16.11-2011			
Nominal Size		Centre To End A	Outside DIA H	Min. Wall Thickness G	Min. Length Of THD	
Inch	MM	Min.	Min.	Min.	B	L2
1/8"	6.00	21.00	22.00	3.18	6.40	6.70
1/4"	8.00	21.00	22.00	3.18	8.10	10.20
3/8"	10.00	25.00	25.00	3.18	9.10	10.40
1/2"	15.00	28.00	33.00	3.18	10.90	13.60
3/4"	20.00	33.00	38.00	3.18	12.70	13.90
1"	25.00	38.00	46.00	3.68	14.70	17.30
1.1/4"	32.00	44.00	56.00	3.89	17.00	18.00
1.1/2"	40.00	51.00	62.00	4.01	17.80	18.40
2"	50.00	60.00	75.00	4.27	19.00	19.20
2.1/2"	65.00	76.00	92.00	5.61	23.60	28.90
3"	80.00	86.00	109.00	5.99	25.90	30.50
4"	100.00	106.00	146.00	6.55	27.70	33.00

Art. No- 2102

Threaded Tee (2000 lbs)

Forged 2000 LBS BLACK

'VS' fittings are being used in textile Industries also. Our threaded tee is a versatile component on almost every type of pipeline for plugging of fluid flow.



A structure of application - Steam Hammers



Class Designation: 2000 Lbs			Standard Reference: ASME B.16.11-2011			
Nominal Size		Centre To End A	Outside DIA H	Min. Wall Thickness G	Min. Length Of THD	
Inch	MM	Min.	Min.	Min.	B	L2
1/8"	6.00	21.00	22.00	3.18	6.40	6.70
1/4"	8.00	21.00	22.00	3.18	8.10	10.20
3/8"	10.00	25.00	25.00	3.18	9.10	10.40
1/2"	15.00	28.00	33.00	3.18	10.90	13.60
3/4"	20.00	33.00	38.00	3.18	12.70	13.90
1"	25.00	38.00	46.00	3.68	14.70	17.30
1.1/4"	32.00	44.00	56.00	3.89	17.00	18.00
1.1/2"	40.00	51.00	62.00	4.01	17.80	18.40
2"	50.00	60.00	75.00	4.27	19.00	19.20
2.1/2"	65.00	76.00	92.00	5.61	23.60	28.90
3"	80.00	86.00	109.00	5.99	25.90	30.50
4"	100.00	106.00	146.00	6.55	27.70	33.00

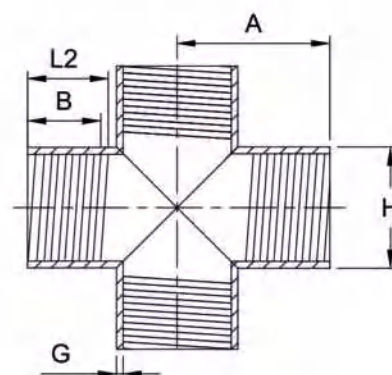
Art No- 2103

Threaded cross

Forged 2000 LBS BLACK



'VS' fittings are being used in textile Industries also. Our threaded cross is a versatile component on almost every type of pipeline for plugging of fluid flow.



A structure of application - Boilers

Class Designation: 2000 Lbs

Standard Reference: ASME B.16.11-2011

Nominal Size		Centre To End A	Outside DIA H	Min. Wall Thickness G	Min. Length Of THD	
Inch	MM	Min.	Min.	Min.	B	L2
1/8"	6.00	21.00	22.00	3.18	6.40	6.70
1/4"	8.00	21.00	22.00	3.18	8.10	10.20
3/8"	10.00	25.00	25.00	3.18	9.10	10.40
1/2"	15.00	28.00	33.00	3.18	10.90	13.60
3/4"	20.00	33.00	38.00	3.18	12.70	13.90
1"	25.00	38.00	46.00	3.68	14.70	17.30
1.1/4"	32.00	44.00	56.00	3.89	17.00	18.00
1.1/2"	40.00	51.00	62.00	4.01	17.80	18.40
2"	50.00	60.00	75.00	4.27	19.00	19.20
2.1/2"	65.00	76.00	92.00	5.61	23.60	28.90
3"	80.00	86.00	109.00	5.99	25.90	30.50
4"	100.00	106.00	146.00	6.55	27.70	33.00

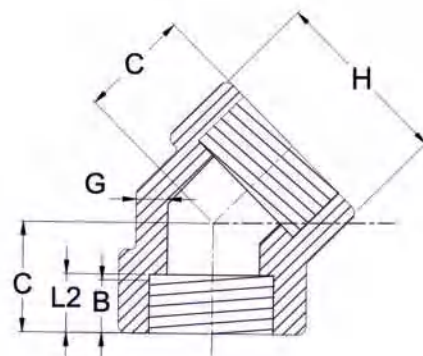
Art No- VS-2104

Threaded elbow 45°

Forged 2000 LBS BLACK



'VS' fittings are being used in textile Industries also. Our threaded elbow is a versatile component on almost every type of pipeline for plugging of fluid flow.



A structure of application - Refinery



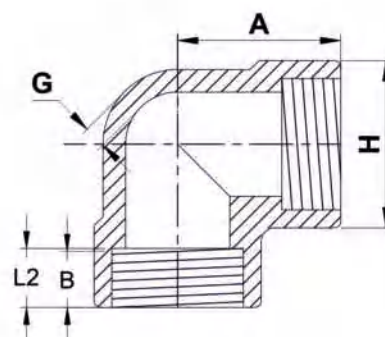
Class Designation: 2000 Lbs			Standard Reference: ASME B.16.11-2011			
Nominal Size		Centre To End C	Outside DIA H	Min. Wall Thickness G	Min. Length Of THD	
Inch	MM	Min.	Min.	Min.	B	L2
1/8"	6.00	17.00	22.00	3.18	6.40	6.70
1/4"	8.00	19.00	22.00	3.18	8.10	10.20
3/8"	10.00	22.00	25.00	3.18	9.10	10.40
1/2"	15.00	25.00	33.00	3.18	10.90	13.60
3/4"	20.00	28.00	38.00	3.18	12.70	13.90
1"	25.00	33.00	46.00	3.68	14.70	17.30
1.1/4"	32.00	35.00	56.00	3.89	17.00	18.00
1.1/2"	40.00	43.00	62.00	4.01	17.80	18.40
2"	50.00	44.00	75.00	4.27	19.00	19.20
2.1/2"	65.00	52.00	92.00	5.61	23.60	28.90
3"	80.00	64.00	109.00	5.99	25.90	30.50
4"	100.00	79.00	146.00	5.99	27.70	33.00

Art No- 3101

Threaded elbow 90°

Forged 3000 LBS BLACK

'VS' fittings are being used in textile Industries also. Our threaded elbow is a versatile component on almost every type of pipeline for plugging of fluid flow.



A structure of application - Steam Hammers



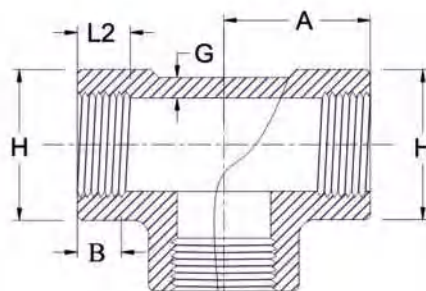
Class Designation: 3000 Lbs			Standard Reference: ASME B.16.11-2011			
Nominal Size		Centre To End A	Outside DIA H	Min. Wall Thickness G	Min. Length Of THD	
Inch	MM	Min.	Min.	Min.	B	L2
1/8"	6.00	21.00	22.00	3.18	6.40	6.70
1/4"	8.00	25.00	25.00	3.30	8.10	10.20
3/8"	10.00	28.00	33.00	3.51	9.10	10.40
1/2"	15.00	33.00	38.00	4.09	10.90	13.60
3/4"	20.00	38.00	46.00	4.32	12.70	13.90
1"	25.00	44.00	56.00	4.98	14.70	17.30
1.1/4"	32.00	51.00	62.00	5.28	17.00	18.00
1.1/2"	40.00	60.00	75.00	5.56	17.80	18.40
2"	50.00	64.00	84.00	7.14	19.00	19.20
2.1/2"	65.00	83.00	102.00	7.65	23.60	28.90
3"	80.00	95.00	121.00	8.84	25.90	30.50
4"	100.00	114.00	152.00	11.18	27.70	33.00

Art No- 3102

Threaded Tee

Forged 3000 LBS BLACK

'VS' fittings are being used in textile Industries also. Our threaded tee is a versatile component on almost every type of pipeline for plugging of fluid flow.



A structure of application - Desalination Plant



Class Designation: 3000 Lbs			Standard Reference: ASME B.16.11-2011			
Nominal Size		Centre To End A	Outside DIA H	Min. Wall Thickness G	Min. Length Of THD	
Inch	MM	Min.	Min.	Min.	B	L2
1/8"	6.00	21.00	22.00	3.18	6.40	6.70
1/4"	8.00	25.00	25.00	3.30	8.10	10.20
3/8"	10.00	28.00	33.00	3.51	9.10	10.40
1/2"	15.00	33.00	38.00	4.09	10.90	13.60
3/4"	20.00	38.00	46.00	4.32	12.70	13.90
1"	25.00	44.00	56.00	4.98	14.70	17.30
1.1/4"	32.00	51.00	62.00	5.28	17.00	18.00
1.1/2"	40.00	60.00	75.00	5.56	17.80	18.40
2"	50.00	64.00	84.00	7.14	19.00	19.20
2.1/2"	65.00	83.00	102.00	7.65	23.60	28.90
3"	80.00	95.00	121.00	8.84	25.90	30.50
4"	100.00	114.00	152.00	11.18	27.70	33.00

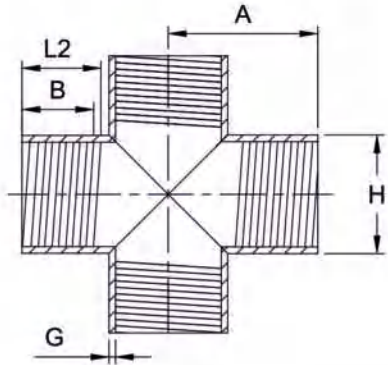
Art No- 3103

Threaded Cross

Forged 3000 LBS BLACK



'VS' fittings are being used in textile Industries also. Our threaded cross is a versatile component on almost every type of pipeline for plugging of fluid flow.



A structure of application - Refinery



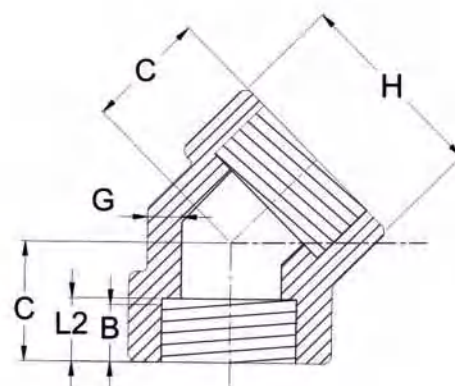
Class Designation: 3000 Lbs			Standard Reference: ASME B.16.11-2011			
Nominal Size		Centre To End A	Outside DIA H	Min. Wall Thickness G	Min. Length Of THD	
Inch	MM	Min.	Min.	Min.	B	L2
1/8"	6.00	21.00	22.00	3.18	6.40	6.70
1/4"	8.00	25.00	25.00	3.30	8.10	10.20
3/8"	10.00	28.00	33.00	3.51	9.10	10.40
1/2"	15.00	33.00	38.00	4.09	10.90	13.60
3/4"	20.00	38.00	46.00	4.32	12.70	13.90
1"	25.00	44.00	56.00	4.98	14.70	17.30
1.1/4"	32.00	51.00	62.00	5.28	17.00	18.00
1.1/2"	40.00	60.00	75.00	5.56	17.80	18.40
2"	50.00	64.00	84.00	7.14	19.00	19.20
2.1/2"	65.00	83.00	102.00	7.65	23.60	28.90
3"	80.00	95.00	121.00	8.84	25.90	30.50
4"	100.00	114.00	152.00	11.18	27.70	33.00

Art No- 3104

Threaded elbow 45°

Forged 3000 LBS BLACK

'VS' fittings are being used in textile Industries also. Our threaded elbow is a versatile component on almost every type of pipeline for plugging of fluid flow.



A structure of application - Ash Handling Plant

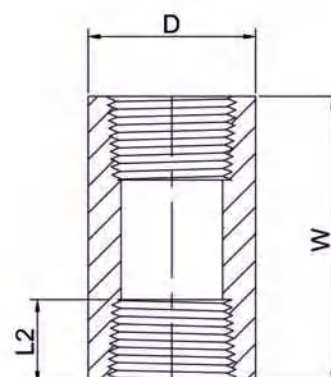
Class Designation: 3000 Lbs			Standard Reference: ASME B.16.11-2011			
Nominal Size		Centre To End C	Outside DIA H	Min. Wall Thickness G	Min. Length Of THD	
Inch	MM	Min.	Min.	Min.	B	L2
1/8"	6.00	17.00	22.00	3.18	6.40	6.70
1/4"	8.00	19.00	25.00	3.30	8.10	10.20
3/8"	10.00	22.00	33.00	3.51	9.10	10.40
1/2"	15.00	25.00	38.00	4.09	10.90	13.60
3/4"	20.00	28.00	46.00	4.32	12.70	13.90
1"	25.00	33.00	56.00	4.98	14.70	17.30
1.1/4"	32.00	35.00	62.00	5.28	17.00	18.00
1.1/2"	40.00	43.00	75.00	5.56	17.80	18.40
2"	50.00	44.00	84.00	7.14	19.00	19.20
2.1/2"	65.00	52.00	102.00	7.65	23.60	28.90
3"	80.00	64.00	121.00	8.84	25.90	30.50
4"	100.00	79.00	152.00	11.18	27.70	33.00

Art No- 3105

Threaded Socket/ Coupling

Forged 3000 LBS BLACK

'VS' fittings are being used in textile Industries also. Our threaded socket is a versatile component on almost every type of pipeline for plugging of fluid flow.



A structure of application - Reaction Tank

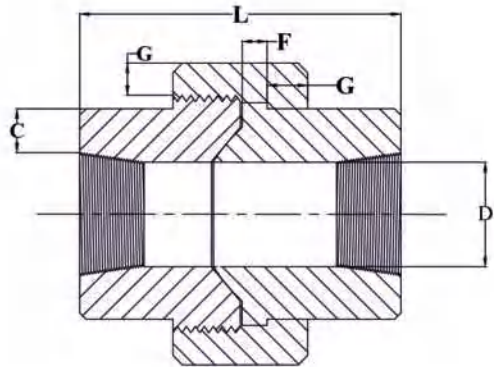
Class Designation: 3000 Lbs			Standard Reference: ASME B.16.11-2011		
Nominal Size		End To End W	Out Side Diameter D	Thread Length L2	
Inch	MM	Min.	Min.	Min.	
1/2"	15.00	48.00	28.00	13.60	
3/4"	20.00	51.00	35.00	13.90	
1"	25.00	60.00	44.00	17.30	
1.1/4"	32.00	67.00	57.00	18.00	
1.1/2"	40.00	79.00	64.00	18.40	
2"	50.00	86.00	76.00	19.20	
2.1/2"	65.00	92.00	92.00	28.90	
3"	80.00	108.00	108.00	30.50	
4"	100.00	121.00	140.00	33.00	

Art No- 3106

Threaded Union 3000 lbs

Forged 3000 LBS BLACK

'VS' fittings are being used in textile Industries also. Our threaded union is a versatile component on almost every type of pipeline for plugging of fluid flow.



A structure of application - Refinery

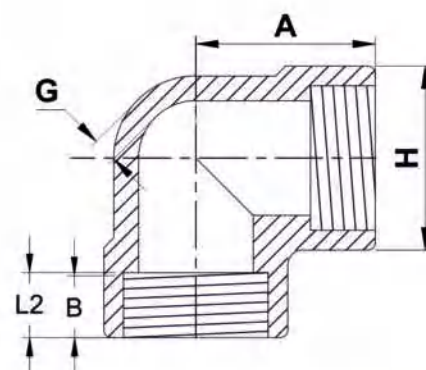
Class Designation: 3000 Lbs		Dimensions 'VS' Threaded Union (STD. REF: MSS SP-83-2006)				
Nominal Size		Water Way Bore D		Socket Wall Thickness C	Nut G	Length Assem. L
Inch	MM	Min.	Min.	Min.	Min.	Min.
1/4"	8.00	9.45	11.13	3.30	3.18	45.00
3/8"	10.00	13.51	14.27	3.51	3.43	50.00
1/2"	15.00	17.07	17.86	4.09	3.68	50.00
3/4"	20.00	21.39	23.01	4.27	4.06	60.00
1"	25.00	26.98	27.74	4.98	4.45	65.00
1.1/4"	32.00	35.36	37.69	5.28	5.21	75.00
1.1/2"	40.00	41.20	43.54	5.54	5.59	80.00
2"	50.00	52.12	55.58	6.05	6.35	90.00
2.1/2"	65.00	64.31	66.27	7.67	7.11	103.00
3"	80.00	77.26	82.55	7.92	8.00	108.96

Art No- 6101

Threaded elbow 90°

Forged 6000 LBS BLACK

These 'VS' fittings are synonymous to precision & they prove it in every field of application.



A structure of application - Steam Hammers

Class Designation: 6000 Lbs

Standard Reference: ASME B16.11-2011

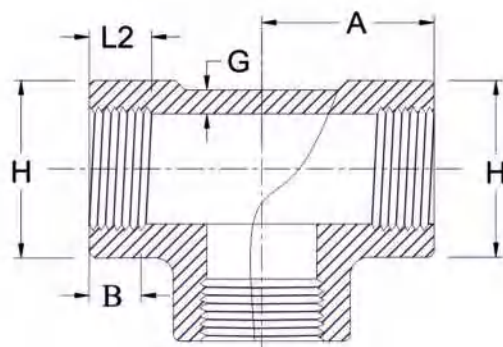
Nominal Size		Centre To End A	Outside DIA H	Min. Wall Thickness G	Min. Length Of THD	
Inch	MM	Min.	Min.	Min.	B	L2
1/8"	6.00	25.00	25.00	6.35	6.40	6.70
1/4"	8.00	28.00	33.00	6.60	8.10	10.20
3/8"	10.00	33.00	38.00	6.98	9.10	10.40
1/2"	15.00	38.00	46.00	8.15	10.90	13.60
3/4"	20.00	44.00	56.00	8.53	12.70	13.90
1"	25.00	51.00	62.00	9.93	14.70	17.30
1.1/4"	32.00	60.00	75.00	10.59	17.00	18.00
1.1/2"	40.00	64.00	84.00	11.07	17.80	18.40
2"	50.00	83.00	102.00	12.09	19.00	19.20
2.1/2"	65.00	95.00	121.00	15.29	23.60	28.90
3"	80.00	106.00	146.00	16.64	25.90	30.50
4"	100.00	114.00	152.00	18.67	27.70	33.00

Art No- 6102

Threaded Tee

Forged 6000 LBS BLACK

These 'VS' fittings are synonymous to precision & they prove it in every field of applications.



A structure of application - Desalination Plant



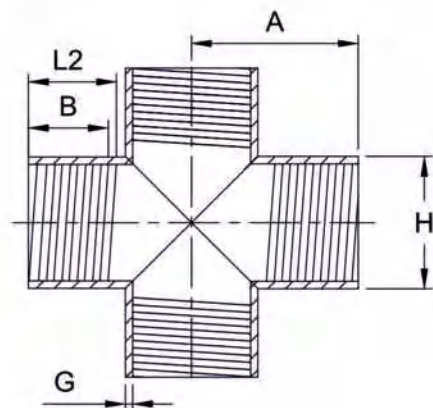
Class Designation: 6000 Lbs			Standard Referecne: ASME B16.11-2011			
Nominal Size		Centre To End A	Outside DIA H	Min. Wall Thickness G	Min. Length Of THD	
Inch	MM	Min.	Min.	Min.	B	L2
1/8"	6.00	25.00	25.00	6.35	6.40	6.70
1/4"	8.00	28.00	33.00	6.60	8.10	10.20
3/8"	10.00	33.00	38.00	6.98	9.10	10.40
1/2"	15.00	38.00	46.00	8.15	10.90	13.60
3/4"	20.00	44.00	56.00	8.53	12.70	13.90
1"	25.00	51.00	62.00	9.93	14.70	17.30
1.1/4"	32.00	60.00	75.00	10.59	17.00	18.00
1.1/2"	40.00	64.00	84.00	11.07	17.80	18.40
2"	50.00	83.00	102.00	12.09	19.00	19.20
2.1/2"	65.00	95.00	121.00	15.29	23.60	28.90
3"	80.00	106.00	146.00	16.64	25.90	30.50
4"	100.00	114.00	152.00	18.67	27.70	33.00

Art No- 6103

Threaded cross

Forged 6000 LBS BLACK

These 'VS' fittings are synonymous to precision & they prove it in every field of applications.



A structure of application - Boiler

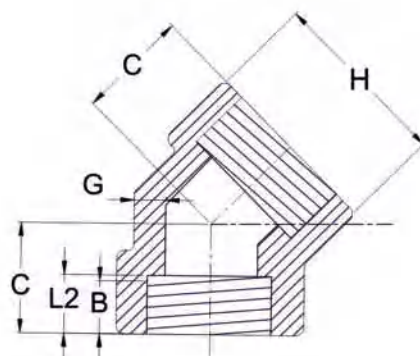
Class Designation: 6000 Lbs			Standard Referecne: ASME B16.11-2011			
Nominal Size		Centre To End A	Outside DIA H	Min. Wall Thickness G	Min. Length Of THD	
Inch	MM	Min.	Min.	Min.	B	L2
1/8"	6.00	25.00	25.00	6.35	6.40	6.70
1/4"	8.00	28.00	33.00	6.60	8.10	10.20
3/8"	10.00	33.00	38.00	6.98	9.10	10.40
1/2"	15.00	38.00	46.00	8.15	10.90	13.60
3/4"	20.00	44.00	56.00	8.53	12.70	13.90
1"	25.00	51.00	62.00	9.93	14.70	17.30
1.1/4"	32.00	60.00	75.00	10.59	17.00	18.00
1.1/2"	40.00	64.00	84.00	11.07	17.80	18.40
2"	50.00	83.00	102.00	12.09	19.00	19.20
2.1/2"	65.00	95.00	121.00	15.29	23.60	28.90
3"	80.00	106.00	146.00	16.64	25.90	30.50
4"	100.00	114.00	152.00	18.67	27.70	33.00

Art No-6104

Threaded elbow 45°

Forged 6000 LBS BLACK

'VS' fittings are being used in textile Industries also. Our threaded elbow is a versatile component on almost every type of pipeline for plugging of fluid flow.



A structure of application - Refinery

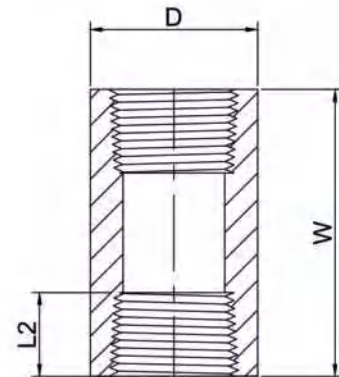
Class Designation: 6000 Lbs			Standard Referecne: ASME B16.11-2011			
Nominal Size		Centre To End C	Outside DIA H	Min. Wall Thickness G	Min. Length Of THD	
Inch	MM	Min.	Min.	Min.	B	L2
1/8"	6.00	19.00	25.00	6.35	6.40	6.70
1/4"	8.00	22.00	33.00	6.60	8.10	10.20
3/8"	10.00	25.00	38.00	6.98	9.10	10.40
1/2"	15.00	28.00	46.00	8.15	10.90	13.60
3/4"	20.00	33.00	56.00	8.53	12.70	13.90
1"	25.00	35.00	62.00	9.93	14.70	17.30
1.1/4"	32.00	43.00	75.00	10.59	17.00	18.00
1.1/2"	40.00	44.00	84.00	11.07	17.80	18.40
2"	50.00	52.00	102.00	12.09	19.00	19.20
3"	80.00	79.00	146.00	16.64	25.90	30.50
4"	100.00	79.00	152.00	18.67	27.70	33.00

Art No-6105

Threaded Socket/ Coupling

Forged 6000 LBS BLACK

'VS' fittings are being used in textile Industries also. Our threaded socket is a versatile component on almost every type of pipeline for plugging of fluid flow.



A structure of application - Steam Hammers

Class Designation: 3000 Lbs		Standard Reference: ASME B.16.11-2011		
Nominal Size		End To End W	Out Side Diameter D	Thread Length L2
Inch	MM	Min.	Min.	Min.
1/2"	15.00	48.00	38.00	13.60
3/4"	20.00	51.00	44.00	13.90
1"	25.00	60.00	57.00	17.30
1.1/4"	32.00	67.00	64.00	18.00
1.1/2"	40.00	79.00	76.00	18.40
2"	50.00	86.00	92.00	19.20
2.1/2"	65.00	92.00	108.00	28.90
3"	80.00	108.00	127.00	30.50
4"	100.00	121.00	159.00	33.00



Swage Nipple



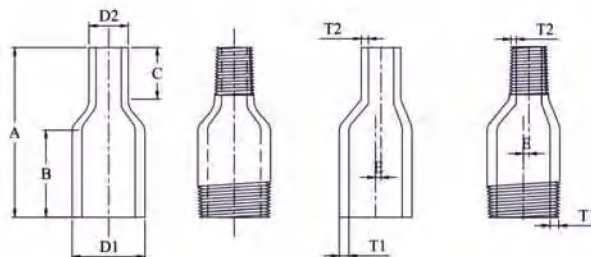
THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES

Art No- 3111

Swage Nipple

Forged 3000 LBS BLACK

Manufacturing 'VS' pipe fittings for big industries unit asks for perfection. Our fittings live up to those standards.



A structure of application - Refinery

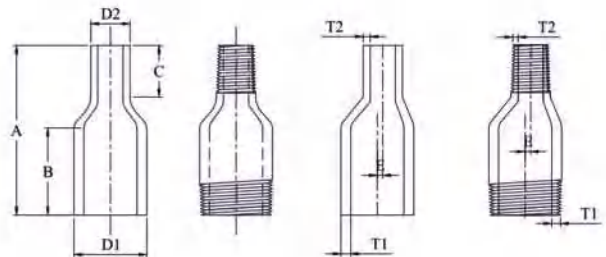
Class Designation: 3000 Lbs					Standard Reference : BS 3799:1974				
Nominal Size		Parallel Length, Min.			Out Side Diameter		Wall Thickness		Eccentricity E
Inch	MM	A (MM)	B (MM)	C (MM)	D1 (MM)	D2 (MM)	T1 Sch (80) (XS)	T2 Sch (80) (XS)	Min.
3/8"x1/4"	10x8	76.00	48.00	16.00	17.10	13.70	3.20	3.00	1.60
1/2"x3/8"	15x10	89.00	56.00	19.00	21.30	17.10	3.70	3.20	1.60
1/2"x1/4"	15x8	89.00	56.00	19.00	21.30	13.70	3.70	3.00	3.20
3/4"x1/2"	20x15	95.00	57.00	22.00	21.30	21.30	3.90	3.70	2.40
3/4"x3/8"	20x10	95.00	57.00	22.00	26.70	17.10	3.90	3.20	4.00
1"x3/4"	25x20	102.00	64.00	22.00	26.70	26.70	4.50	3.90	2.80
1"x1/2"	25x15	102.00	64.00	22.00	33.40	21.30	4.50	3.70	5.20
1.1/2"x1"	40x25	114.00	70.00	25.00	33.40	33.40	5.10	4.50	6.70
1.1/2"x3/4"	40x20	114.00	70.00	25.00	48.30	26.70	5.10	3.90	9.50
1.1/2"x1/2"	40x15	114.00	70.00	25.00	48.30	21.30	5.10	3.70	11.90
2"x1.1/2"	50x40	165.00	108.00	29.00	48.30	48.30	5.50	5.10	5.60
2"x1"	50x25	165.00	108.00	29.00	60.30	33.40	5.50	4.50	12.70
2"x3/4"	50x20	165.00	108.00	29.00	60.30	26.70	5.50	3.90	15.50
2"x1/2"	50x15	165.00	108.00	29.00	60.30	21.30	5.50	3.70	17.50
2.1/2"x2"	65x50	178.00	114.00	32.00	73.00	60.30	7.00	5.50	4.80
2.1/2"x1.1/2"	65x40	178.00	114.00	32.00	73.00	48.30	7.00	5.10	10.30
3"x2.1/2"	80x65	203.00	133.00	41.00	88.90	73.00	7.60	7.00	7.10
3"x2"	80x50	203.00	133.00	41.00	88.90	60.30	7.60	5.50	11.90
3"x1.1/2"	80x40	203.00	133.00	41.00	88.90	48.30	7.60	5.10	17.50
4"x3"	100x80	229.00	140.00	48.00	114.30	88.90	8.60	7.60	11.90
4"x2.1/2"	100x65	229.00	140.00	48.00	114.30	73.00	8.60	7.00	19.10

Art No- 6111

Swage Nipple

Forged 6000 LBS BLACK

Manufacturing 'VS' pipe fittings for big industries unit asks for perfection. Our fittings live up to those standards.



A structure of application - Refinery

Class Designation: 6000 Lbs				Standard Reference : BS 3799:1974							
Nominal Size		Parallel Length, Min.			Out Side Diameter		Wall Thickness		Wall Thickness Screwed		Eccentricity E
Inch	MM	A (MM)	B (MM)	C (MM)	D1 (MM)	D2 (MM)	T1 Sch (160) (XS)	T2 Sch (160) (XS)	Min.	Min.	Min.
3/8"x1/4"	10x8	76.00	48.00	16.00	17.10	13.70	4.00	-	6.40	-	1.60
1/2"x3/8"	15x10	89.00	56.00	19.00	21.30	17.10	4.80	-	7.50	-	1.60
1/2"x1/4"	15x8	89.00	56.00	19.00	21.30	13.70	4.80	-	7.50	-	3.20
3/4"x1/2"	20x15	95.00	57.00	22.00	21.30	21.30	5.60	4.80	7.80	7.50	2.40
3/4"x3/8"	20x10	95.00	57.00	22.00	26.70	17.10	5.60	-	7.80	-	4.00
1"x3/4"	25x20	102.00	64.00	22.00	26.70	26.70	6.40	5.60	9.10	7.80	2.80
1"x1/2"	25x15	102.00	64.00	22.00	33.40	21.30	6.40	4.80	9.10	7.50	5.20
1.1/2"x1"	40x25	114.00	70.00	25.00	33.40	33.40	7.10	6.40	10.20	9.10	6.70
1.1/2"x3/4"	40x20	114.00	70.00	25.00	48.30	26.70	7.10	5.60	10.20	7.80	9.50
1.1/2"x1/2"	40x15	114.00	70.00	25.00	48.30	21.30	7.10	4.80	10.20	7.50	11.90
2"x1.1/2"	50x40	165.00	108.00	29.00	48.30	48.30	8.70	7.10	11.10	10.20	5.60
2"x1"	50x25	165.00	108.00	29.00	60.30	33.40	8.70	6.40	11.10	9.10	12.70
2"x3/4"	50x20	165.00	108.00	29.00	60.30	26.70	8.70	5.60	11.10	7.80	15.50
2"x1/2"	50x15	165.00	108.00	29.00	60.30	21.30	8.70	4.80	11.10	7.50	17.50
2.1/2"x2"	65x50	178.00	114.00	32.00	73.00	60.30	9.50	8.70	14.00	11.10	4.80
2.1/2"x1.1/2"	65x40	178.00	114.00	32.00	73.00	48.30	9.50	7.10	14.00	10.20	10.30
3"x2.1/2"	80x65	203.00	133.00	41.00	88.90	73.00	11.10	9.50	15.20	14.00	7.10
3"x2"	80x50	203.00	133.00	41.00	88.90	60.30	11.10	8.70	15.20	11.10	11.90
3"x1.1/2"	80x40	203.00	133.00	41.00	88.90	48.30	11.10	7.10	15.20	10.20	17.50
4"x3"	100x80	229.00	140.00	48.00	114.30	88.90	13.50	11.10	17.10	15.20	11.90
4"x2.1/2"	100x65	229.00	140.00	48.00	114.30	73.00	13.50	9.50	17.10	14.00	19.10



**Forged Steel
Pipe Fittings with
Threaded end connection
1000 Lbs.**



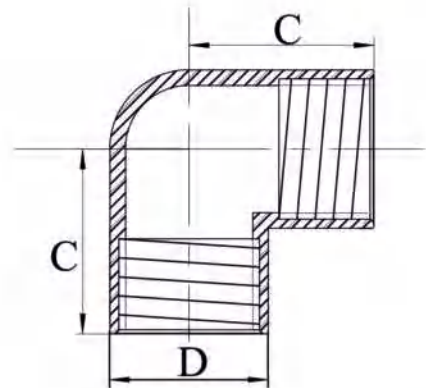
**THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES**

Art No- 1001

Elbow 90°

Forged 1000 LBS BLACK

Manufacturing 'VS' pipe fittings for big refineries ask for perfection. Our fittings live up to required standards of perfection in quality and endurance.



A structure of application - Harbours

Class Designation: 1000 Lbs		Standard Reference: IS: 1239 (Part 2) 2011/ BS EN 10241-2000	
Nominal Size		Centre To Face C	Minimum Outer DIA D
Inch	MM	Min.	Min.
1/8"	6.00	16.00	15.00
1/4"	8.00	22.00	18.50
3/8"	10.00	24.00	22.00
1/2"	15.00	32.00	27.00
3/4"	20.00	35.00	32.50
1"	25.00	43.00	39.50
1.1/4"	32.00	51.00	49.00
1.1/2"	40.00	52.00	56.00
2"	50.00	64.00	68.00
2.1/2"	65.00	76.00	84.00
3"	80.00	89.00	98.00
4"	100.00	115.00	124.00
5"	125.00	140.00	151.00
6"	150.00	160.00	178.00

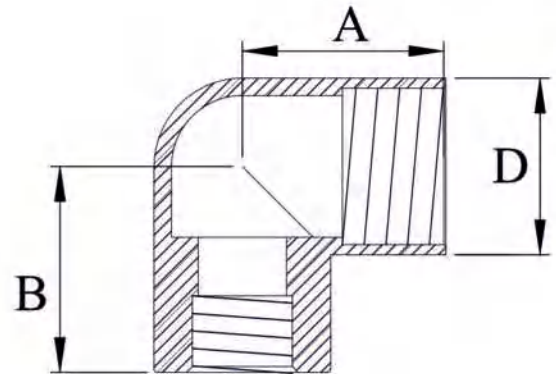
Art No- 1002

Reducing Elbow 90°

Forged 1000 LBS BLACK



Manufacturing 'VS' pipe fittings for mills ask for perfection. Our reducing elbow live up to the required standards of perfection from every angle.



A structure of application - Sugar Mills

Class Designation: 1000 Lbs

Standard Reference: IS: 1239 (Part 2) 2011/ BS EN 10241-2000

Nominal Size Of Outlet	Min. Length Of Centre To Face A	Min. Length of Centre To Face B	Minimum Outer DIA D
8x6	21.00	22.00	18.50
10x6	21.00	24.00	22.00
10x8	22.00	24.00	22.00
15x8	25.00	32.00	27.00
15x10	27.00	32.00	27.00
20x8	27.00	35.00	32.50
20x10	29.00	35.00	32.50
20x15	32.00	35.00	32.50
25x10	32.00	43.00	39.50
25x15	35.00	43.00	39.50
25x20	38.00	43.00	39.50
32x15	38.00	51.00	49.00
32x20	41.00	51.00	49.00
32x25	44.00	51.00	49.00
40x15	38.00	52.00	56.00
40x20	41.00	52.00	56.00
40x25	44.00	52.00	56.00
40x32	48.00	52.00	56.00
50x15	41.00	64.00	68.00
50x20	44.00	64.00	68.00
50x25	48.00	64.00	68.00
50x32	52.00	64.00	68.00
50x40	56.00	64.00	68.00
65x40	60.00	76.00	84.00
65x50	67.00	76.00	84.00
80x25	60.00	89.00	98.00
80x50	73.00	89.00	98.00

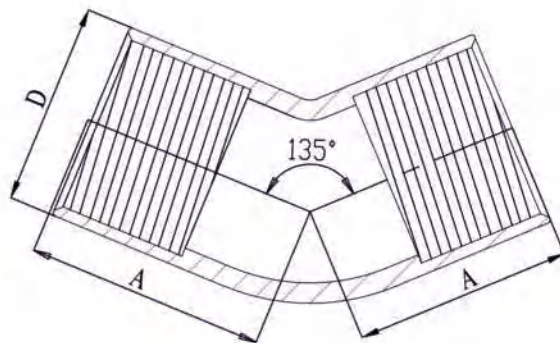
Art No- 1003

Elbow 45°

Forged 1000 LBS BLACK



Manufacturing 'VS' pipe fittings for mills ask for perfection. Our elbow 45° live up to the required standards of perfection from every angle.



A structure of application - Gas Storage

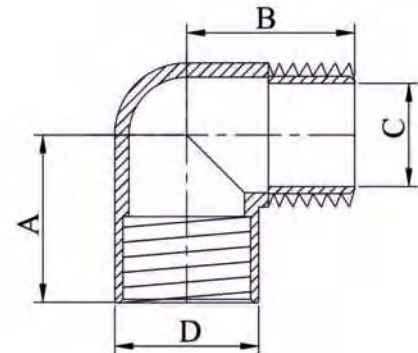
Class Designation: 1000 Lbs		Standard Reference: IS: 1239 (Part 2) 2011/ BS EN 10241-2000	
Nominal Size Of Outlet		Centre To Face A (Min)	Minimum Outer DIA D
Inch	MM	Min.	Min.
1/8"	6.00	16.00	15.00
1/4"	8.00	17.00	18.50
3/8"	10.00	19.00	22.00
1/2"	15.00	22.00	27.00
3/4"	20.00	27.00	32.50
1"	25.00	33.00	39.50
1.1/4"	32.00	38.00	49.00
1.1/2"	40.00	44.00	56.00
2"	50.00	51.00	68.00
2.1/2"	65.00	60.00	84.00
3"	80.00	73.00	98.00
4"	100.00	105.00	124.00

Art No- 1004

Male/Female Elbow 90°

Forged 1000 LBS BLACK

Manufacturing 'VS' pipe fittings for mills ask for perfection. Our male/female elbow live up to the required standards of perfection from every angle.



A structure of application - Paper Mills

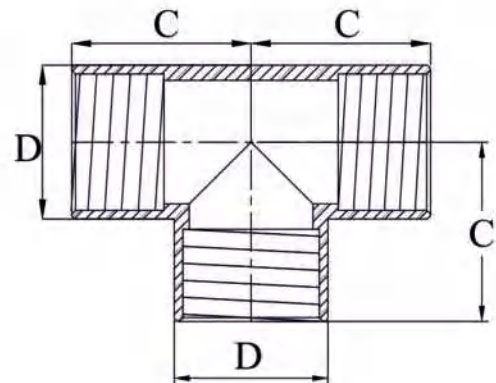
Class Designation: 1000 Lbs		Standard Reference: IS: 1239 (Part 2) 2011/ BS EN 10241-2000				
Nominal Size Of Outlet		Min. Length Of Centre To Face A	Min. Length Of Centre To Face B	Bore Dia Of Male End C	Minimum Outer DIA D	
Inch	MM	Min.	Min.	Min.	B	L2
1/4"	8.00	19.00	27.00	6.50	8.00	18.50
3/8"	10.00	21.00	29.00	8.50	10.50	22.00
1/2"	15.00	25.00	35.00	11.50	13.00	27.00
3/4"	20.00	30.00	40.00	18.00	21.00	32.50
1"	25.00	37.00	46.00	24.00	26.00	39.50
1.1/4"	32.00	43.00	54.00	30.00	32.00	49.00
1.1/2"	40.00	49.00	57.00	37.00	39.00	56.00
2"	50.00	59.00	70.00	48.00	51.00	68.00
2.1/2"	65.00	68.00	83.00	62.00	66.00	84.00
3"	80.00	81.00	94.00	75.00	79.00	98.00

Art No. VS- 1005

Tee

Forged 1000 LBS BLACK

Forged steel 'VS' fittings for petrochemical industries require high quality, long life & total safety. Our fittings are made to fit these requirements.



A structure of application - ONGC

Class Designation: 1000 Lbs		Standard Reference: IS: 1239 (Part 2) 2011/ BS EN 10241-2000	
Nominal Size		Minimum Length Centre To Face C	Minimum Outer DIA D
Inch	MM	Min.	Min.
1/8"	6.00	16.00	15.00
1/4"	8.00	22.00	18.50
3/8"	10.00	24.00	22.00
1/2"	15.00	32.00	27.00
3/4"	20.00	35.00	32.50
1"	25.00	43.00	39.50
1.1/4"	32.00	51.00	49.00
1.1/2"	40.00	52.00	56.00
2"	50.00	64.00	68.00
2.1/2"	65.00	76.00	84.00
3"	80.00	89.00	98.00
4"	100.00	115.00	124.00
5"	125.00	140.00	151.00
6"	150.00	160.00	178.00

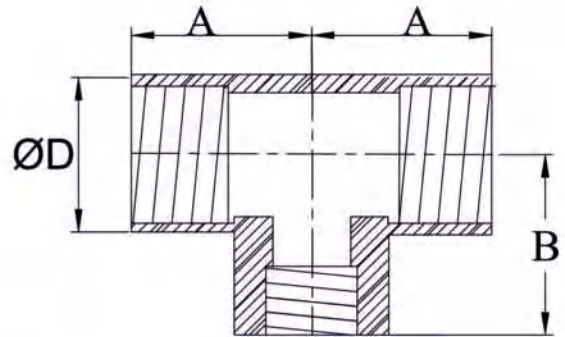
Art No.- 1006

Reducing Tee

Forged 1000 LBS BLACK



Our 'VS' fittings proved their operational superiority on fuel gas systems and are number one. These tees are made to perfection.



A structure of application - Fuel Gas Transmission

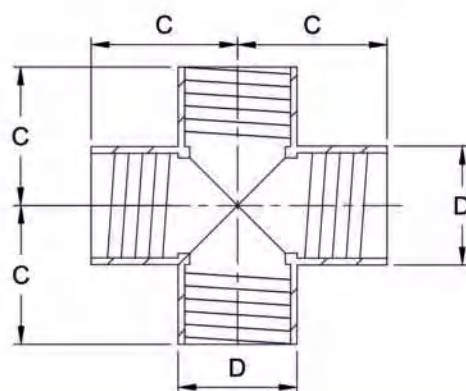
Class Designation: 1000 Lbs				Standard Reference: IS: 1239 (Part 2) 2011/ BS EN 10241-2000			
Nominal Size Of Outlet	Min. Length Of Centre To Face A	Min. Length Of Centre To Face B	Minimum Outer DIA D	Nominal Size Of Outlet	Min. Length Of Centre To Face A	Min. Length Of Centre To Face B	Minimum Outer DIA D
8x6	21.00	22.00	18.50	40X20	41.00	52.00	56.00
10x6	21.00	24.00	22.00	40x25	48.00	52.00	56.00
10x8	22.00	24.00	22.00	40X32	49.00	52.00	56.00
15x8	25.00	32.00	27.00	50X15	41.00	64.00	68.00
15x10	27.00	32.00	27.00	50X20	44.00	64.00	68.00
20x8	27.00	35.00	32.50	50X25	48.00	64.00	68.00
20x10	29.00	35.00	32.50	50X32	52.00	64.00	68.00
20x15	32.00	35.00	32.50	50X40	56.00	64.00	68.00
25x10	32.00	43.00	39.50	65X40	60.00	76.00	84.00
25x15	35.00	43.00	39.50	65X50	67.00	76.00	84.00
25x20	38.00	43.00	39.50	80X25	60.00	89.00	98.00
32x15	38.00	51.00	49.00	80X32	64.00	89.00	98.00
32x20	41.00	51.00	49.00	80X40	67.00	89.00	98.00
32x25	44.00	51.00	49.00	80X50	73.00	89.00	98.00
40x15	38.00	52.00	56.00	80X65	79.00	89.00	98.00

Art No- VS-1007

Cross

Forged 1000 LBS BLACK

These 'VS' fittings are normally used in hot fluids and steam applications. Our Fittings need to be equally perfect from all ends.



A structure of application - Sugar Mills

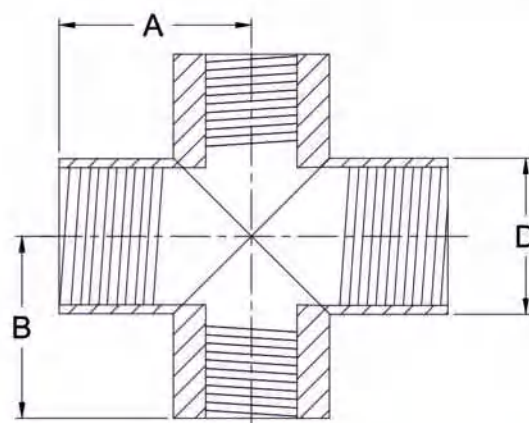
Class Designation: 1000 Lbs		Standard Reference: IS: 1239 (Part 2) 2011/ BS EN 10241-2000	
Nominal Size		Minimum Length Centre To Face C	Minimum Outer DIA D
Inch	MM	Min.	Min.
1/8"	6.00	16.00	15.00
1/4"	8.00	22.00	18.50
3/8"	10.00	24.00	22.00
1/2"	15.00	32.00	27.00
3/4"	20.00	35.00	32.50
1"	25.00	43.00	39.50
1.1/4"	32.00	51.00	49.00
1.1/2"	40.00	52.00	56.00
2"	50.00	64.00	68.00
2.1/2"	65.00	76.00	84.00
3"	80.00	89.00	98.00
4"	100.00	115.00	124.00

Art No.- 1008

Reducing Cross Threaded

Forged 1000 LBS BLACK

Our 'VS' fittings proved their operational superiority on fuel gas systems and are number one. These tees are made to perfection.



A structure of application - Refinery



Class Designation: 1000 Lbs

Standard Reference: IS: 1239 (Part 2) 2011/ BS EN 10241-2000

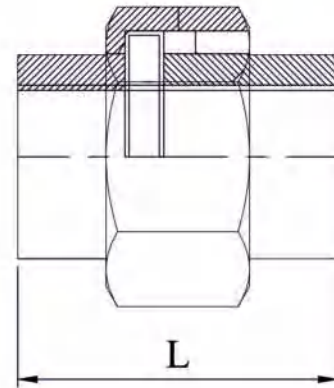
Nominal Size Of Outlet	Min. Length Of Centre To Face A	Min. Length Of Centre To Face B	Minimum Outer DIA D	Nominal Size Of Outlet	Min. Length Of Centre To Face A	Min. Length Of Centre To Face B	Minimum Outer DIA D
8x6	21.00	22.00	18.50	40X20	41.00	52.00	56.00
10x6	21.00	24.00	22.00	40x25	48.00	52.00	56.00
10x8	22.00	24.00	22.00	40X32	49.00	52.00	56.00
15x8	25.00	32.00	27.00	50X15	41.00	64.00	68.00
15x10	27.00	32.00	27.00	50X20	44.00	64.00	68.00
20x8	27.00	35.00	32.50	50X25	48.00	64.00	68.00
20x10	29.00	35.00	32.50	50X32	52.00	64.00	68.00
20x15	32.00	35.00	32.50	50X40	56.00	64.00	68.00
25x10	32.00	43.00	39.50	65X40	60.00	76.00	84.00
25x15	35.00	43.00	39.50	65X50	67.00	76.00	84.00
25x20	38.00	43.00	39.50	80X25	60.00	89.00	98.00
32x15	38.00	51.00	49.00	80X32	64.00	89.00	98.00
32x20	41.00	51.00	49.00	80X40	67.00	89.00	98.00
32x25	44.00	51.00	49.00	80X50	73.00	89.00	98.00
40x15	38.00	52.00	56.00	80X65	79.00	89.00	98.00

Art No- VS-1009

Union

Forged 1000 LBS BLACK

Perfect threading and connection are what our 'VS' fittings are known for. Our forged steel fittings are much sought after in railways due to their ruggedness and reliable service life.



A structure of application - Railways



Class Designation: 1000 Lbs		Standard Reference: IS: 1239 (Part 2) 2011/ BS EN 10241-2000	
Nominal Size Of Outlet		Minimum Length L	
Inch	MM	Min.	
1/8"	6.00	38.00	
1/4"	8.00	44.00	
3/8"	10.00	51.00	
1/2"	15.00	57.00	
3/4"	20.00	67.00	
1"	25.00	76.00	
1.1/4"	32.00	85.00	
1.1/2"	40.00	100.00	
2"	50.00	110.00	
2.1/2"	65.00	120.00	
3"	80.00	135.00	
4"	100.00	160.00	

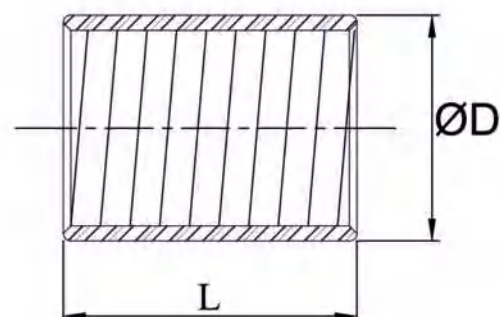
Art No.- VS-1010

Socket/ Coupling

Forged 1000 LBS BLACK



Our 'VS' fittings true to their name are very reliable in any pipe line network which is very essential in harbours



A structure of application - Harbours

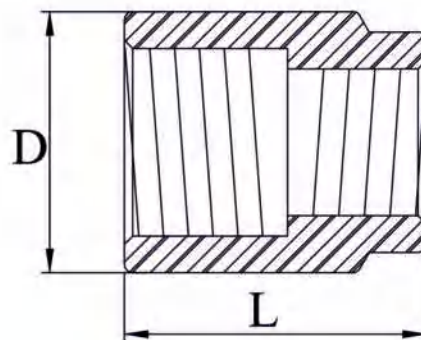
Class Designation: 1000 Lbs		Standard Reference: IS: 1239 (Part 2) 2011/ BS EN 10241-2000	
Nominal Size		Minimum Length L	Minimum Outer Dia D
Inch	MM	Min.	Min.
1/8"	6.00	19.00	15.00
1/4"	8.00	27.00	18.50
3/8"	10.00	28.00	22.00
1/2"	15.00	37.00	27.00
3/4"	20.00	39.00	32.50
1"	25.00	46.00	39.50
1.1/4"	32.00	51.00	49.00
1.1/2"	40.00	51.00	56.00
2"	50.00	60.00	68.00
2.1/2"	65.00	69.00	84.00
3"	80.00	75.00	98.00
4"	100.00	87.00	124.00
5"	125.00	96.00	151.00
6"	150.00	96.00	178.00

Art No- 1011

Reducing Socket/ Coupling

Forged 1000 LBS BLACK

Manufacturing these 'VS' Reducing socket, is a work of art which we have perfected from all angles.



A structure of application - ONGC

Class Designation: 1000 Lbs

Standard Reference: IS: 1239 (Part 2) 2011/ BS EN 10241-2000

Nominal Size Of Outlet	Minimum Length L	Minimum Outer Dia D
MM	MM	Min.
8x6	25.00	18.50
10x6	30.00	22.00
10x8	29.00	22.00
15x6	41.00	27.00
15x8	40.00	27.00
15x10	38.00	27.00
20x8	44.00	32.50
20x10	43.00	32.50
20x15	41.00	39.50
25x8	54.00	39.50
25x10	52.00	39.50
25x15	51.00	32.50
25x20	49.00	32.50
32x10	60.00	49.00
32x15	59.00	49.00
32x20	57.00	49.00
32x25	56.00	49.00
40x15	65.00	56.00
40x20	64.00	56.00
40x25	62.00	56.00
40x32	60.00	56.00
50x15	70.00	68.00
50x20	68.00	68.00
50x25	67.00	68.00
50x32	65.00	68.00
50x40	64.00	68.00
65x25	76.00	84.00
65x32	75.00	84.00
65x40	73.00	84.00
65x50	71.00	84.00
80x25	86.00	98.00
80x32	84.00	98.00
80x40	83.00	98.00
80x50	81.00	98.00
80x65	79.00	98.00

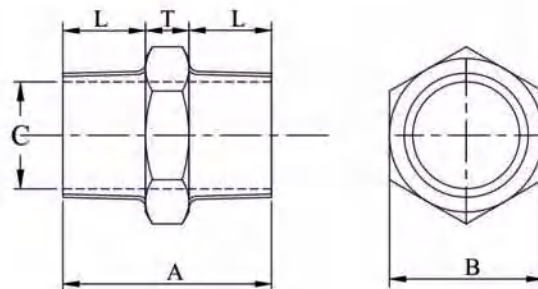
Art No VS-1012

Hex. Nipple

Forged 1000 LBS BLACK



Our 'VS' fittings have been most succesfully used on pneumatic lines. Manufacturing Hex. Nipples means perfecting both the ends.



A structure of application - Pneumatics

Class Designation: 1000 Lbs			Standard Reference: IS: 1239 (Part 2) 2011/ BS EN 10241-2000			
Nominal Size Of Outlet		Min. Length Of Thread For Basic Gauge Length Plus Dia Clearance L	Thickness Of Hexagon T	Minimum Overall Length A	Minimum Diameter Of Bore C	Width Across Flats Of Hexagon B
Inch	MM	Min.	Min.	Min.	Min.	Min.
1/8"	6.00	9.50	6.00	25.00	5.50	13.10
1/4"	8.00	12.50	6.00	31.00	6.50	15.50
3/8"	10.00	12.50	8.00	33.00	9.50	17.90
1/2"	15.00	17.50	8.00	43.00	12.50	23.00
3/4"	20.00	19.00	10.00	48.00	19.00	27.80
1"	25.00	21.00	10.00	52.00	25.00	35.30
1.1/4"	32.00	24.00	11.00	59.00	32.00	47.20
1.1/2"	40.00	24.00	13.00	61.00	38.00	52.00
2"	50.00	27.00	14.00	68.00	51.00	61.10
2.1/2"	65.00	32.00	16.00	80.00	64.00	79.00
3"	80.00	35.00	19.00	89.00	76.00	92.00
4"	100.00	40.00	22.00	102.00	100.00	117.00

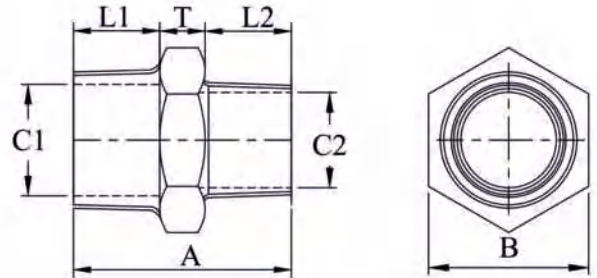
Art No- VS- 1013

Reducing Hex. Nipple

Forged 1000 LBS BLACK



When ever the word automobiles is used, it personifies strength & our 'VS' fittings means strength in every way.



A structure of application - Automobile Industry

Class Designation: 1000 Lbs

Standard Reference: IS: 1239 (Part 2) 2011/ BS EN 10241-2000

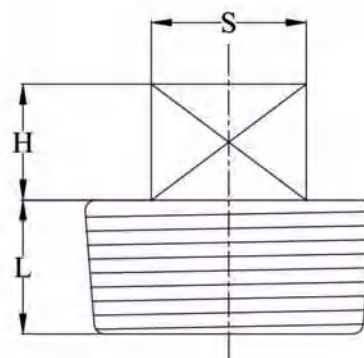
Nominal Size Of Outlet	Min. Length Of Thread For Basic Gauge Length Plus Dia Clearance L		Thickness Of Hexagon T	Minimum Overall Length A	Minimum Diameter Of Bore		Width Across Flats Of Hexagon B
MM	L1	L2	Min.	Min.	C1	C2	Min.
8x6	12.50	9.50	6.00	28.00	6.50	5.50	15.50
10x8	12.50	12.50	8.00	33.00	9.50	6.50	17.90
15x8	17.50	12.50	8.00	38.00	12.50	6.50	23.00
15x10	17.50	12.50	8.00	38.00	12.50	9.50	23.00
20x10	19.00	12.50	10.00	41.50	19.00	9.50	27.80
20x15	19.00	17.50	10.00	46.50	19.00	12.50	27.80
25x15	21.00	17.50	10.00	48.50	25.00	12.50	35.30
25x20	21.00	19.00	10.00	50.00	25.00	19.00	35.30
32x20	24.00	19.00	11.00	54.00	32.00	19.00	47.20
32x25	24.00	21.00	11.00	56.00	32.00	25.00	47.20
40x25	24.00	21.00	13.00	58.00	38.00	25.00	52.00
40x32	24.00	24.00	13.00	61.00	38.00	32.00	52.00
50x32	27.00	24.00	14.00	65.00	51.00	32.00	61.10
50x40	27.00	24.00	14.00	65.00	51.00	38.00	61.10
65X32	32.00	24.00	16.00	72.00	64.00	32.00	79.00
65X40	32.00	24.00	16.00	72.00	64.00	38.00	79.00
65X50	32.00	27.00	16.00	75.00	64.00	51.00	79.00
80X40	35.00	24.00	19.00	78.00	76.00	38.00	92.00
80X50	35.00	27.00	19.00	81.00	76.00	51.00	92.00
80X65	35.00	32.00	19.00	86.00	76.00	64.00	92.00

Art No- 1014

Plug

Forged 1000 LBS BLACK

'VS' fittings are being used in textile Industries also. Our plug is a versatile component on almost every type of pipeline for plugging of fluid flow.



A structure of application - Textiles

Class Designation: 1000 Lbs			Standard Reference: IS: 1239 (Part 2) 2011/ BS EN 10241-2000		
Nominal Size		Min. Length Of Thread For Basic Gauge L	Approx. Size Of Square S	Approx. Height Of Square H	
Inch	MM	Min.	Min.	Min.	
1/8"	6.00	6.50	6.00	6.00	
1/4"	8.00	9.70	9.00	6.00	
3/8"	10.00	10.10	11.00	10.00	
1/2"	15.00	13.20	13.00	10.00	
3/4"	20.00	14.50	14.00	12.00	
1"	25.00	16.80	17.00	12.00	
1.1/4"	32.00	19.10	22.00	16.00	
1.1/2"	40.00	19.10	27.00	16.00	
2"	50.00	23.40	32.00	19.19	
2.1/2"	65.00	26.70	37.00	19.00	
3"	80.00	29.80	37.00	22.00	

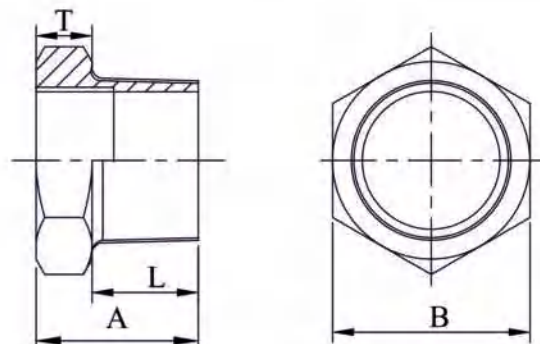
Art No- VS-1015

Hex. Bush

Forged 1000 LBS BLACK

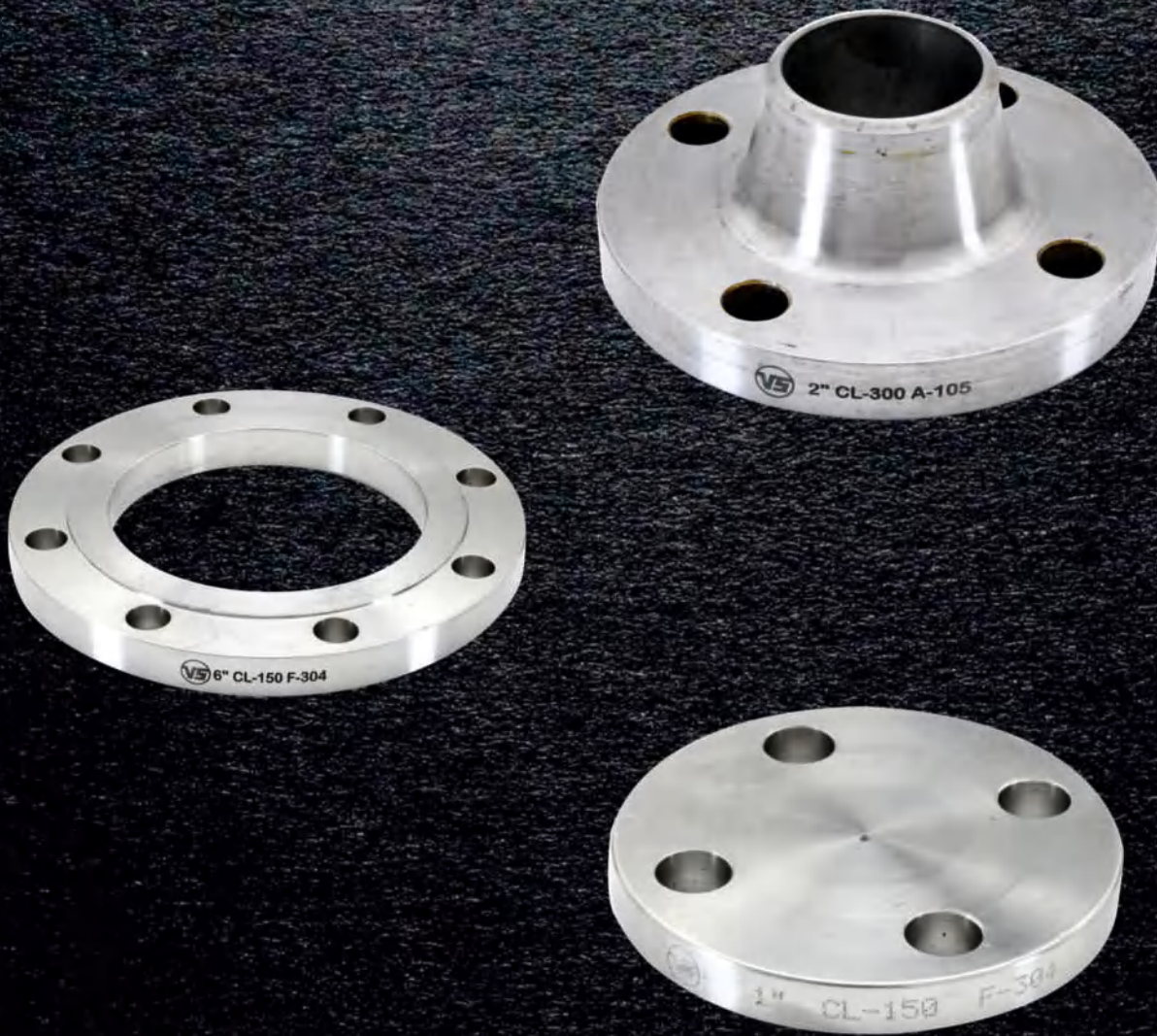


Manufacturing these 'VS' fittings for fire fighting applications require a lot of consistency and skill and certainly our product meets those standards.



A structure of application - Fire Fighting

Class Designation: 1000 Lbs		Standard Reference: IS: 1239 (Part 2) 2011/ BS EN 10241-2000		
Nominal Size	Min. Length Of Thread For Basic Gauge Length Plus Clearance	Thickness Of Hexagon T	Overall Length A	Width Across Flats Of Hexagon B
MM	MM	Min.	Min.	Min.
8x6	12.50	6.00	18.50	15.50
10x8	12.50	7.00	20.50	17.90
15x8	17.50	8.00	25.50	23.00
15x10	17.50	7.00	25.50	23.00
20x10	19.00	10.00	29.00	27.80
20x15	19.00	10.00	29.00	27.80
25x15	21.00	10.00	31.00	35.30
25x20	21.00	10.00	31.00	35.30
32x15	24.00	11.00	35.00	47.20
32x20	24.00	11.00	35.00	47.20
32x25	24.00	11.00	35.00	47.20
40x20	24.00	13.00	37.00	52.00
40x25	24.00	13.00	37.00	52.00
40x32	24.00	13.00	37.00	52.00
50x25	27.00	14.00	41.00	61.10
50x32	27.00	14.00	41.00	61.10
50x40	27.00	14.00	41.00	61.10
65X32	32.00	16.00	48.00	79.00
65X40	32.00	16.00	48.00	79.00
65X50	32.00	16.00	48.00	79.00
80X40	35.00	19.00	54.00	92.00
80X50	35.00	19.00	54.00	92.00
80X65	35.00	19.00	54.00	92.00



Forged Steel Flanges



THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES

Art No- VSFL - 0001

TECHNICAL SPECIFICATION FOR

FORGED STEEL FLANGES



Salient Features:

1. Design standard as per ASME B 16.5.
2. Flanges are available in Machined finish as well as Phosphate and Hot Zinc Galvanized.
3. Flanges are available in different types like SORF, WNRF & BRF.
4. Flanges are available up to class #CL150, #CL300, and #CL600.

Test pressure:

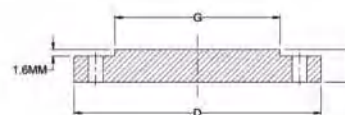
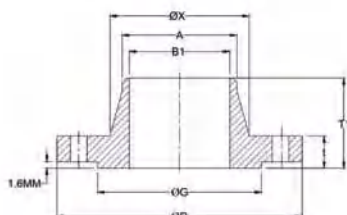
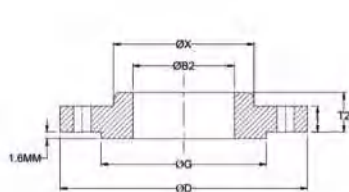
1. Max. Working Temperature : 425°C

Material:

1. ASTM A105, A182 F304, F316.

DIMENSIONS FOR CLASS 150 FLANGES

ANSI B 16.5 Forged Flanges



Nominal Pipe Size	Outside Diam.	Diam. at Base of Hub	O.D of Raised Face	Thick- ness	BORE			LENGTH THRU HUB			Diam. of Hub at Bevel	Radius of Fillet	Thread Length	Depth of Socket
					Welding Neck Socket Welding	Slip-on Socket Welding	Lap Joint	Welding Neck	Slip-on Threaded Socket Welding	Lap Joint				
INCH	D	X	G	T	B1	B2	B3	T1	T2	T3	A	R	Q	Y
1/2"	89	30.2	35.1	11.2	15.8	22.4	22.9	47.8	15.7	15.7	21.3	3	15.7	9.7
3/4"	99	38.1	42.9	12.7	20.8	27.7	28.2	52.3	15.7	15.7	26.7	3	15.7	11.2
1"	108	49.3	50.8	14.2	26.7	34.5	35.1	55.6	17.5	17.5	33.5	3	17.5	12.7
1.1/4"	117	58.7	63.5	15.7	35.1	43.2	43.7	57.2	20.6	20.6	42.2	4.8	20.6	14.2
1.1/2"	127	65	73.2	17.5	40.9	49.5	50	62	22.4	22.4	48.3	6.4	22.4	15.8
2"	152	77.7	91.9	19.1	52.6	62	62.5	63.5	25.4	25.4	60.5	7.9	25.4	17.5
2.1/2"	178	90.4	104.6	22.4	62.7	74.7	75.4	69.9	28.4	28.4	73.2	7.9	28.4	19.1
3"	191	108	127	23.9	78	90.7	91.4	69.9	30.2	30.2	88.9	9.7	30.2	20.6
3.1/2"	216	122.2	139.7	23.9	90.2	103.4	104.1	71.4	31.8	31.8	101.6	9.7	31.8	22.4
4"	229	134.9	157.2	23.9	102.4	116.1	116.8	76.2	33.3	33.3	114.3	11.2	33.3	23.9
5"	254	163.6	185.7	23.9	128.3	143.8	144.5	88.9	36.6	36.6	141.2	11.2	36.6	23.9
6"	279	192	215.9	25.4	154.2	170.7	171.5	88.9	39.6	39.6	168.4	12.7	39.6	26.9
8"	343	246.1	269.7	28.4	202.7	221.5	222.3	101.6	44.5	44.5	219.2	12.7	44.5	31.8
10"	406	304.8	323.9	30.2	254.5	276.4	277.4	101.6	49.3	49.3	273.1	12.7	49.3	33.3
12"	483	365.3	381	31.8	304.8	327.2	328.2	114.3	55.6	55.6	323.9	12.7	55.6	39.6

Art No- VSFL - 0002

TECHNICAL SPECIFICATION FOR

FORGED STEEL FLANGES



Salient Features:

1. Design standard as per ASME B 16.5.
2. Flanges are available in Machined finish as well as Phosphate and Hot Zinc Galvanized.
3. Flanges are available in different types like SORF, WNRF & BRF.
4. Flanges are available up to class #CL150, #CL300, and #CL600.

Test pressure:

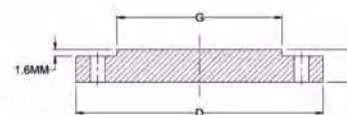
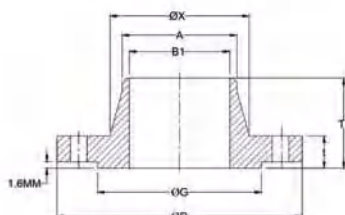
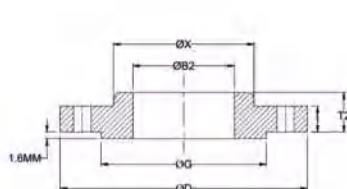
1. Max. Working Temperature : 425°C

Material:

1. ASTM A105, A182 F304, F316.

DIMENSIONS FOR CLASS 300 FLANGES

ANSI B 16.5 Forged Flanges



Nominal Pipe Size	Outside Diam.	Diam. at Base of Hub	O.D of Raised Face	Thick- ness	BORE				LENGTH THRU HUB			Diam. of Hub at Bevel	Radius of Fillet	Thread Length	Depth of Socket
					Welding Neck Socket Welding	Slip-on Socket Welding	Lap Joint	Counter Bore Min.	Welding Neck	Slip-on Threaded Socket Welding	Lap Joint				
INCH	D	X	G	T	B1	B2	B3	B	T1	T2	T3	A	R	Q	Y
1/2"	95	38.1	35.1	14.2	15.7	22.4	22.9	23.6	52.3	22.4	22.4	21.3	3	15.7	9.7
3/4"	117	47.8	42.9	15.7	20.8	27.7	28.2	29	57.2	25.4	25.4	26.7	3	15.7	11.2
1"	124	53.8	50.8	17.5	26.7	34.5	35.1	35.8	62	26.9	26.9	33.5	3	17.5	12.7
1.1/4"	133	63.5	63.5	19.1	35.1	43.2	43.7	44.5	65	26.9	26.9	42.2	4.8	20.6	14.2
1.1/2"	155	69.9	73.2	20.6	40.9	49.5	50	50.5	68.3	30.2	30.2	48.3	6.4	22.4	15.7
2"	165	84.1	91.9	22.4	52.6	62	62.5	63.5	69.9	33.3	33.3	60.5	7.9	28.4	17.5
2.1/2"	191	100.1	104.6	25.4	62.7	74.7	75.4	76.2	76.2	38.1	38.1	73.2	7.9	31.8	19.1
3"	210	117.3	127	28.4	78	90.7	91.4	92.2	79.2	42.9	42.9	88.9	9.7	31.8	20.6
3.1/2"	229	133.4	139.7	30.2	90.2	103.4	104.1	104.9	81	44.5	44.5	101.6	9.7	36.6	22.4
4"	254	146.1	157.2	31.8	102.4	116.1	116.8	117.6	85.9	47.8	47.8	114.3	11.2	36.6	23.9
5"	279	177.8	185.7	35.1	128.3	143.8	144.5	144.5	98.6	50.8	50.8	141.2	11.2	42.9	23.9
6"	318	206.2	215.9	36.6	154.2	170.7	171.5	171.5	98.6	52.3	52.3	168.4	12.7	46	26.9
8"	381	260.4	269.7	41.1	202.7	221.5	222.3	222.3	111.3	62	62	219.2	12.7	50.8	31.8
10"	445	320.5	323.9	47.8	254.5	276.4	277.4	276.4	117.3	66.5	95.3	273.1	12.7	55.6	33.3
12"	521	374.7	381	50.8	304.8	327.2	328.2	328.7	130	73.2	101.6	323.9	12.7	60.5	39.6

FORGED STEEL FLANGES**Salient Features:**

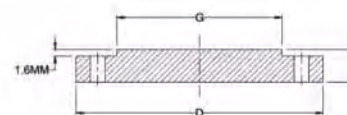
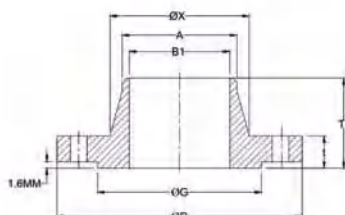
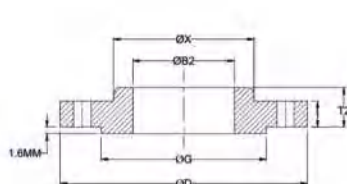
1. Design standard as per ASME B 16.5.
2. Flanges are available in Machined finish as well as Phosphate and Hot Zinc Galvanized.
3. Flanges are available in different types like SORF, WNRF & BRF.
4. Flanges are available up to class #CL150, #CL300, and #CL600.

Test pressure:

1. Max. Working Temperature : 425°C

Material:

1. ASTM A105, A182 F304, F316.

DIMENSIONS FOR CLASS 600 FLANGES**ANSI B 16.5 Forged Flanges**

Nominal Pipe Size	Outside Diam.	Diam. at Base of Hub	O.D of Raised Face	Thick- ness	BORE				LENGTH THRU HUB			Diam. of Hub at Bevel	Radius of Fillet	Thread Length	Depth of Socket
					Welding Neck Socket Welding	Slip-on Socket Welding	Lap Joint	Counter Bore Min.	Welding Neck	Slip-on Threaded Socket Welding	Lap Joint				
INCH	D	X	G	T	B1	B2	B3	B	T1	T2	T3	A	R	Q	Y
1/2"	95	38.1	35.1	14.2		22.4	22.9	23.6	52.3	22.4	22.4	21.3	3	15.7	9.7
3/4"	117	47.8	42.9	15.7		27.7	28.2	29	57.2	25.4	25.4	26.7	3	15.7	11.2
1"	124	53.8	50.8	17.5		34.5	35.1	35.8	62	26.9	26.9	33.5	3	17.5	12.7
1.1/4"	133	63.5	63.5	20.6		43.2	43.7	44.5	66.5	28.4	28.4	42.2	4.8	20.6	14.2
1.1/2"	155	69.9	73.2	22.4		49.5	50	50.5	69.9	31.8	31.8	48.3	6.4	22.4	15.7
2"	165	84.1	91.9	25.4		62	62.5	63.5	73.2	36.6	36.6	60.5	7.9	28.4	17.5
2.1/2"	191	100.1	104.6	28.4		74.7	75.4	76.2	79.2	41.1	41.1	73.2	7.9	31.8	19.1
3"	210	117.3	127	31.8		90.7	91.4	92.2	82.6	46	46	88.9	9.7	35.1	20.6
3.1/2"	229	133.4	139.7	35.1		103.4	104.1	104.9	85.9	49.3	49.3	101.6	9.7	39.6	22.4
4"	273	152.4	157.2	38.1		116.1	116.8	117.6	101.6	53.8	53.8	114.3	11.2	41.1	23.9
5"	330	189	185.7	44.5		143.8	144.5	144.5	114.3	60.5	60.5	141.2	11.2	47.8	23.9
6"	356	222.3	215.9	47.8		170.7	171.5	171.5	117.3	66.5	66.5	168.4	12.7	50.8	26.9
8"	419	273.1	269.7	55.6		221.5	222.3	222.3	133.4	76.2	76.2	219.2	12.7	57.2	31.8
10"	508	342.9	323.9	63.5		276.4	277.4	276.4	152.4	85.9	111.3	273.1	12.7	65	33.3
12"	559	400.1	381	66.5		327.2	328.2	328.7	155.4	91.9	117.3	323.9	12.7	69.9	39.6

TO BE SPECIFIED BY PURCHASER



Forged Valves



THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES

Art No- VSV-1001

FORGED STEEL GLOBE VALVE

CLASS-800 (FULL BORE)



THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES

Salient Features:

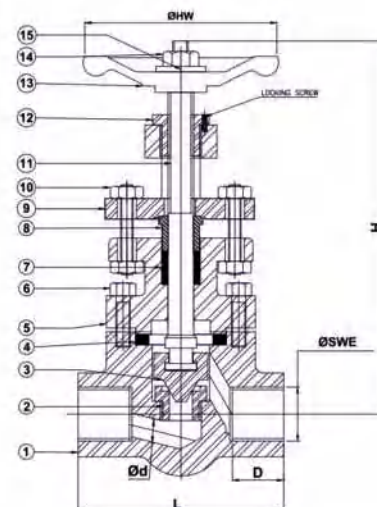
- Design Standard API 602 / BS EN ISO 15761 (BS 5352).
- Body and Bonnet are Phosphated, to ensure maximum resistance from rust.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Stem.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

Test Pressure:

- Shell (Hydrostatic) : 207 bar (3000 psig)
- Seat & Back Seat (Hydrostatic) : 152 bar (2200 psig)
- Seat (Pneumatic) : 6.9 bar (100 psig)
- Maximum Working Temperature : 425°C

Suitable For:

- Steam, Water, Oil, Air, Gas



P. No.	Name Of Part	Specifications
1	Body	ASTM A105
2	Seat Ring	F6a 13% Cr / Stainless Steel ASTM A276 type 410
3	Plug Disc.	F6a 13% Cr / Stainless Steel ASTM A276 type 410
4	Gasket	Spiral Wound Stainless Steel (Type 316 Graphite Filled)
5	Bonnet	ASTM A 105
6	Studs	ASTM A193 Gr B7
7	Packing	Graphite moulded rings with braided top / bottom rings
8	Gland	A182 F6a 13% Cr / Stainless Steel type 410 ASTM A276
9	Gland Flange	ASTM A105
10	Nuts	ASTM A194 Gr. 2H
11	Stem	ASTM A276 Type 410
12	Yoke Sleeve	ASTM A582 Type 416
13	Hand Wheel	SG Iron / Steel
14	Hand Wheel Retaining Nut	Carbon Steel
15	Identification Plate	Aluminium (anodised)

NPS	INCH	Øb	L1(BWE)	L2 (SWE)	H	ØSWE	D
15	½	12.7	88	88	155	21.8 - 22.2	11
20	¾	18	100	100	175	27.2 - 27.6	14
25	1	23	124	124	198	33.9 - 34.3	14
32	1 ¼	32	140	140	250	42.7 - 43.1	14
40	1 ½	35	170	170	270	48.8 - 49.2	14

Art No- VSV-1002

FORGED STEEL GLOBE VALVE

CLASS-800 (REDUCED BORE)



THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES

Salient Features:

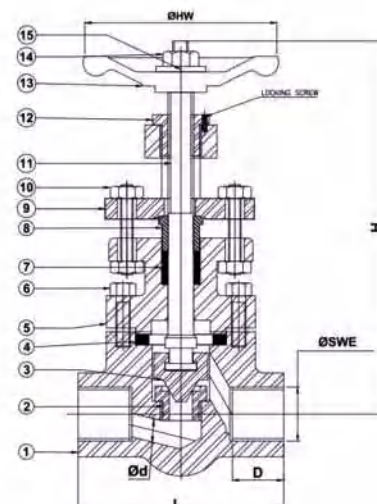
- Design Standard API 602 / BS EN ISO 15761 (BS 5352).
- Body and Bonnet are Phosphated, to ensure maximum resistance from rust.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Stem.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

Test Pressure:

- Shell (Hydrostatic) : 207 bar (3000 psig)
- Seat & Back Seat (Hydrostatic) : 152 bar (2200 psig)
- Seat (Pneumatic) : 6.9 bar (100 psig)
- Maximum Working Temperature : 425°C

Suitable For:

- Steam, Water, Oil, Air, Gas



P. No.	Name Of Part	Specifitions
1	Body	ASTM A105
2	Seat Ring	F6a 13% Cr / Stainless Steel ASTM A276 type 410
3	Plug Disc.	F6a 13% Cr / Stainless Steel ASTM A276 type 410
4	Gasket	Spiral Wound Stainless Steel (Type 316 Graphite Filled)
5	Bonnet	ASTM A 105
6	Studs	ASTM A193 Gr B7
7	Packing	Graphite moulded rings with braided top / bottom rings
8	Gland	A182 F6a 13% Cr / Stainless Steel type 410 ASTM A276
9	Gland Flange	ASTM A105
10	Nuts	ASTM A194 Gr. 2H
11	Stem	ASTM A276 Type 410
12	Yoke Sleeve	ASTM A582 Type 416
13	Hand Wheel	SG Iron / Steel
14	Hand Wheel Retaining Nut	Carbon Steel
15	Identification Plate	Aluminium (anodised)

NPS	INCH	Øb	L1(BWE)	L2(SWE)	H	ØSWE	D
15	½	10	82	82	140	21.8 - 22.2	11
20	¾	12.7	90	90	155	27.2 - 27.6	14
25	1	18	98	98	175	33.9 - 34.3	14
32	1 ¼	24	130	130	192	42.7 - 43.1	14
40	1 ½	30	155	155	240	48.8 - 49.2	14
50	2	35	170	170	270	61.2 - 61.7	17

Art No- VSV-1003

FORGED STEEL GATE VALVE

CLASS-800 (FULL BORE)



Salient Features:

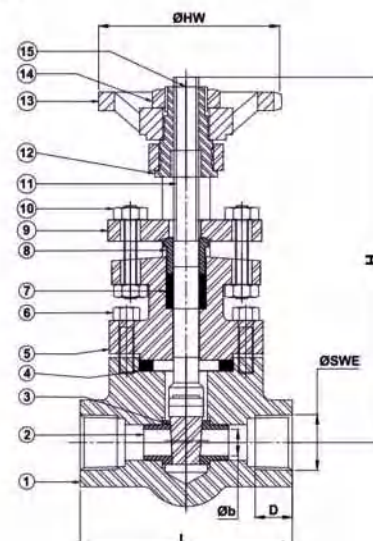
- Design Standard API 602 / BS EN ISO 15761 (BS 5352).
- Body and Bonnet are Phosphated, to ensure maximum resistance from rust.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Stem.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

Test Pressure:

- Shell (Hydrostatic) : 207 bar (3000 psig)
- Seat & Back Seat (Hydrostatic) : 152 bar (2200 psig)
- Seat (Pneumatic) : 6.9 bar (100 psig)
- Maximum Working Temperature : 425°C

Suitable For:

- Steam, Water, Oil, Air, Gas



P. No.	Name Of Part	Specifitions
1	Body	ASTM A105
2	Seat Ring	F6a 13% Cr / Stainless Steel ASTM A276 type 410
3	Wedge	F6a 13% Cr / Stainless Steel ASTM A276 type 410
4	Gasket	Spiral Wound Stainless Steel (Type 316 Graphite Filled)
5	Bonnet	ASTM A 105
6	Studs	ASTM A193 Gr B7
7	Packing	Graphite moulded rings with braided top / bottom rings
8	Gland	A182 F6a 13% Cr / Stainless Steel type 410 ASTM A276
9	Gland Flange	ASTM A105
10	Nuts	ASTM A194 Gr. 2H
11	Stem	ASTM A276 Type 410
12	Yoke Sleeve	ASTM A582 Type 416
13	Hand Wheel	SG Iron / Steel
14	Hand Wheel Retaining Nut	Carbon Steel
15	Identification Plate	Aluminium (anodised)

NPS	INCH	Øb	L1(BWE)	L2(SWE)	H	ØSWE	D
15	½	12.7	88	88	145	21.8 - 22.2	14
20	¾	18	100	100	170	27.2 - 27.6	14
25	1	24	114	114	192	33.9 - 34.3	14
32	1 ¼	31	104	104	220	42.7 - 43.1	14
40	1 ½	37	116	116	242	48.8 - 49.2	17

Art No- VSV-1004

FORGED STEEL GATE VALVE

CLASS-800 (REDUCED BORE)



THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES

Salient Features:

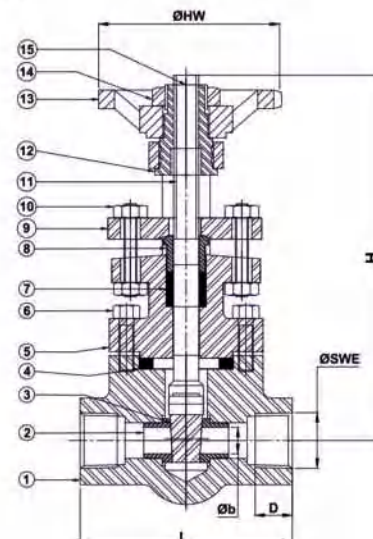
- Design Standard API 602 / BS EN ISO 15761 (BS 5352).
- Body and Bonnet are Phosphated, to ensure maximum resistance from rust.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Stem.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

Test Pressure:

- Shell (Hydrostatic) : 207 bar (3000 psig)
- Seat & Back Seat (Hydrostatic) : 152 bar (2200 psig)
- Seat (Pneumatic) : 6.9 bar (100 psig)
- Maximum Working Temperature : 425°C

Suitable For:

- Steam, Water, Oil, Air, Gas



P. No.	Name Of Part	Specifitions
1	Body	ASTM A105
2	Seat Ring	F6a 13% Cr / Stainless Steel ASTM A276 type 410
3	Wedge	F6a 13% Cr / Stainless Steel ASTM A276 type 410
4	Gasket	Spiral Wound Stainless Steel (Type 316 Graphite Filled)
5	Bonnet	ASTM A 105
6	Studs	ASTM A193 Gr B7
7	Packing	Graphite moulded rings with braided top / bottom rings
8	Gland	A182 F6a 13% Cr / Stainless Steel type 410 ASTM A276
9	Gland Flange	ASTM A105
10	Nuts	ASTM A194 Gr. 2H
11	Stem	ASTM A276 Type 410
12	Yoke Sleeve	ASTM A582 Type 416
13	Hand Wheel	SG Iron / Steel
14	Hand Wheel Retaining Nut	Carbon Steel
15	Identification Plate	Aluminium (anodised)

NPS	INCH	Øb	L1(BWE)	L2(SWE)	H	ØSWE	D
15	½	9.5	80	80	130	21.8 - 22.2	11
20	¾	12.5	88	88	150	27.2 - 27.6	14
25	1	18	100	100	168	33.9 - 34.3	14
32	1 ¼	24	114	114	186	42.7 - 43.1	14
40	1 ½	31	104	104	222	48.8 - 49.2	14
50	2	37	116	116	245	61.2 - 61.7	17

Art No- VSV-1005

FORGED STEEL HORIZONTAL

LIFT CHECK VALVE

CLASS-800 (FULL BORE)



Salient Features:

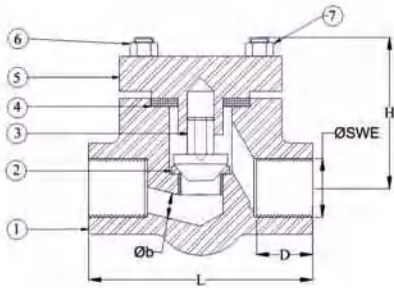
- Design Standard API 602 / BS EN ISO 15761 (BS 5352).
- Body and Bonnet are Phosphated, to ensure maximum resistance from rust.
- Bolted Cover.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

Test Pressure:

- Shell : 207 bar (3000 psig)
- Seat : 152 bar (2200 psig)
- Maximum Working Temperature : 425°C

Suitable For:

- Steam, Water, Oil, Air, Gas



P. No.	Name Of Part	Specifitions
1	Body	ASTM A105
2	Seat Ring	F6a 13% Cr / Stainless Steel ASTM A276 type 410
3	Wedge Disc	F6a 13% Cr / Stainless Steel ASTM A276 type 410
4	Gasket	Spiral Wound Stainless Steel (Type 316 Graphite Filled)
5	Cover	ASTM A 105
6	Studs	ASTM A193 Gr B7
7	Nuts	ASTM A194 Gr. 2H



NPS	INCH	Øb	L1(BWE)	L2(SWE)	H	ØSWE	D
15	½	12.7	88	88	60	21.8 - 22.2	14
20	¾	18	100	100	78	27.2 - 27.6	14
25	1	23	124	124	90	33.9 - 34.3	14
32	1 ¼	32	140	140	97	42.7 - 43.1	14
40	1 ½	35	170	170	120	48.8 - 49.2	17

Art No- VSV-1006

FORGED STEEL HORIZONTAL

LIFT CHECK VALVE CLASS-800 (REDUCED BORE)



Salient Features:

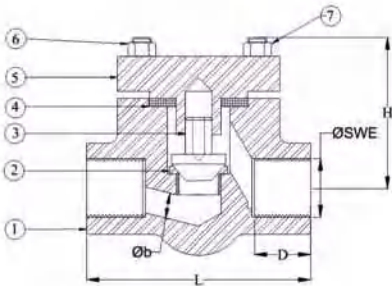
- Design Standard API 602 / BS EN ISO 15761 (BS 5352).
- Body and Bonnet are Phosphated, to ensure maximum resistance from rust.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Stem.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

Test Pressure:

- Shell : 207 bar (3000 psig)
- Seat : 152 bar (2200 psig)
- Maximum Working Temperature : 425°C

Suitable For:

- Steam, Water, Oil, Air, Gas



P. No.	Name Of Part	Specifitions
1	Body	ASTM A105
2	Seat Ring	F6a 13% Cr / Stainless Steel ASTM A276 type 410
3	Wedge Disc	F6a 13% Cr / Stainless Steel ASTM A276 type 410
4	Gasket	Spiral Wound Stainless Steel (Type 316 Graphite Filled)
5	Cover	ASTM A 105
6	Studs	ASTM A193 Gr B7
7	Nuts	ASTM A194 Gr. 2H



NPS	INCH	Øb	L1(BWE)	L2(SWE)	H	ØSWE	D
15	½	10	80	80	55	21.8 - 22.2	11
20	¾	12.7	88	88	60	27.2 - 27.6	14
25	1	18	100	100	78	33.9 - 34.3	14
32	1 ¼	24	130	130	90	42.7 - 43.1	14
40	1 ½	30	145	145	97	48.8 - 49.2	14
50	2	35	170	170	120	61.2 - 61.7	17

Art No- VSV-1007

FORGED STEEL BALL VALVE

CLASS-800 (FULL BORE)



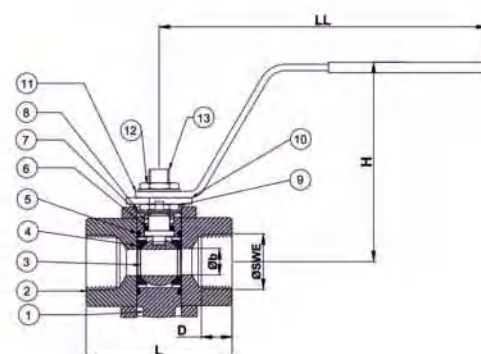
THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES

Test Pressure:

- Shell (Hydrostatic) : 207 bar (3000 psig)
- Seat & Back Seat (Hydrostatic) : 152 bar (2205 psig)
- Seat (Pneumatic) : 6.9 bar (100 psig)
- Maximum Working Temperature : 425°C

Suitable For:

- Water, Oil, Air, Gas



P. No.	Name Of Part	Specifitions
1	Body	ASTM A105
2	Pipe Connector	ASTM A105
3	Ball	ASTM A276 Type 304 / ASTM A351 Cf8
4	Seat	Virgin Unifilled Oil Free PTFE
5	Body Seal	Virgin Unifilled Oil Free PTFE
6	Stem & Gland Seal	Virgin Unifilled Oil Free PTFE
7	Gland	ASTM A276 Type 304
8	Belleville Washer	Zinc Plated
9	Stem Nut	ASTM A276 Type 304
10	Stoper Plate	IS 2062
11	Lever (Zinc Plated)	Carbon Steel Plate With Plastic Sleeve
12	Lever Nut	ASTM A276 Type 304
13	Stem	ASTM A276 Type 304
14	Locking Washer	IS 2062
15	Bolts / Studs	ASTM A193 Gr. B7
16	Nuts	ASTM A194 Gr. 2H
17	Antistatic Ball	Type 316
18	Spring	Type 316



NPS	L	Øb	H	NPT	LL	ØSWE	D
8	60	9.5	80	1/4"	165	-	9.5
10	60	9.5	80	3/8"	165	-	9.5
15	70	12.5	82	1/2"	165	21.8	11
20	85	19	103	3/4"	180	27.4	14
25	95	25	112	1"	180	34.1	14
32	110	32	118	1.1/4"	230	42.9	14
40	120	40	122	1.1/2	272	49	14

Art No- VSV-1008

FORGED STEEL BALL VALVE

CLASS-800 (REDUCED BORE)



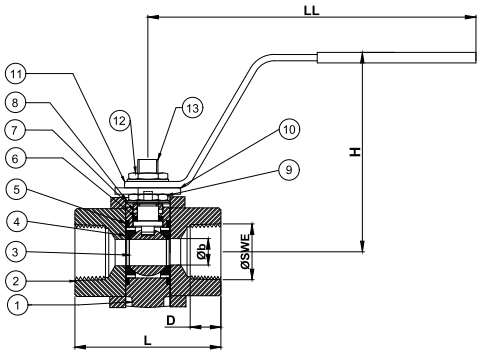
Test Pressure:

- Shell (Hydrostatic) : 207 bar (3003 psig)
- Seat & Back Seat (Hydrostatic) : 152 bar (2205 psig)
- Seat (Pneumatic) : 6.9 bar (100 psig)
- Maximum Working Temperature : 425°C

Suitable For:

- Water, Oil, Air, Gas

P. No.	Name Of Part	Specifitions
1	Body	ASTM A105
2	Pipe Connector	ASTM A105
3	Ball	ASTM A276 Type 304 / ASTM A351 Cf8
4	Seat	Virgin Unifilled Oil Free PTFE
5	Body Seal	Virgin Unifilled Oil Free PTFE
6	Stem & Gland Seal	Virgin Unifilled Oil Free PTFE
7	Gland	ASTM A276 Type 304
8	Belleville Washer	Zinc Plated
9	Stem Nut	ASTM A276 Type 304
10	Stoper Plate	IS 2062
11	Lever (Zinc Plated)	Carbon Steel Plate With Plastic Sleeve
12	Lever Nut	ASTM A276 Type 304
13	Stem	ASTM A276 Type 304
14	Locking Washer	IS 2062
15	Bolts / Studs	ASTM A193 Gr. B7
16	Nuts	ASTM A194 Gr. 2H
17	Antistatic Ball	Type 316
18	Spring	Type 316



NPS	L	Øb	H	NPT	LL	ØSWE	D
15	60	9.5	80	1/2"	165	21.8	11
20	70	12.5	82	3/4"	165	27.4	14
25	85	19	103	1"	180	34.1	14
32	95	25	112	1.1/4"	180	42.9	14
40	110	32	118	1.1/2"	230	49	14
50	120	40	122	2"	272	61	17

Art No- VSV-1009

BUTTERFLY VALVE EPDM PN-16 (CAST IRON/CAST STEEL)



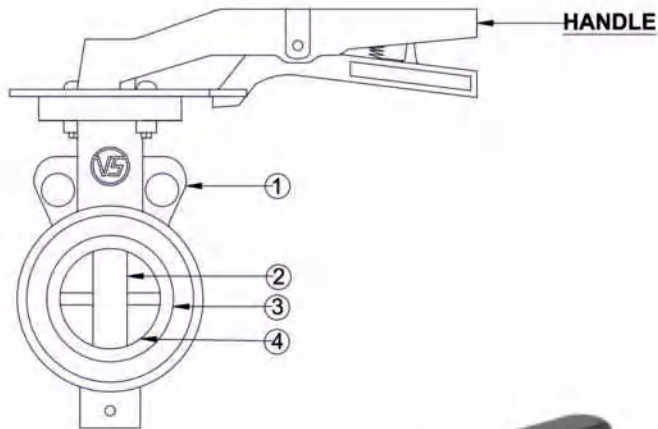
Test Pressure:

- Body Pressure: 16kg/cm
- Seat Pressure: 16kg/cm
- Maximum Working Temperature : 120°C

Suitable For:

- Water, Oil

P. No.	Name Of Part	Specifitions
1	Body	Cast Iron/Cast Steel
2	Disc	S.G. IRON / CF8 / CF8M
3	Seat	EPDM
4	Ends	Wafrer Ends ASA 150#



Art No- VSV-1010

FORGED BRASS BALL VALVE (SCREWED)



Salient Features:

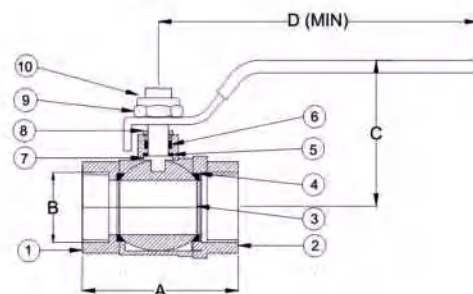
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Full Bore, Two Piece Design.
- Lever Operated, Quarter Turn.
- Provided with Forged Brass Hard Chrome plated Ball.
- Chrome Finish.
- Fitted With Stainless Steel Handles.

Test Pressure:

- Shell : 25 Kg/cm² g (350psig)
- Seat : 16 Kg/cm² g (225 psig)
- Maximum Working Temperature : 220°C

Suitable For:

- Water, Oil



P. No.	Name Of Part	Specifications
1	Body	Forged Brass, IS 6912 Gr. FLB
2	Bonnet	Forged Brass, IS 6912 Gr. FLB
3	Ball	Forged Brass, (Chrome plated) IS 6912 Gr. FLB
4	Body Seat Ring	PTFE, BS EN 12086 - 1
5	Thrust Washer	PTFE, BS EN 12086 - 1
6	Gland Packing	PTFE, BS EN 12086 - 1
7	Stem	Forged Brass, IS 6912 Gr. FLB
8	Gland	—
9	Lever	Stainless Steel
10	Nut	Stainless Steel

INCH	MM	A±1.5	B	C	D
1/4"	8	47	1/4"	37	90
3/8"	10	47	3/8"	37	90
1/2"	15	50	1/2"	40	106
3/4"	20	58	3/4"	43	132
1"	104	67	1"	51	132
1.1/4"	139	76	1.1/4"	65	166
1.1/2"	40	87	1.1/2"	72	176
2"	50	104	2"	80	216
2.1/2"	65	139	2.1/2"	102	216
3"	80	155	3"	110	280

Art No- VSV-1011

FORGED BRASS NOZZLE BIB COCK



Size Available

1/2 X 1/2" - 1/2 X 3/4"

3/4 X 3/4" - 3/4 X 1/2"



Art No- VSV-1012

FORGED BRASS VERTICAL CHECK VALVE PN-25

Size Available

1/2" - 2"



Art No- VSV-1013

FORGED BRASS HORIZONTAL SWING CHECK VALVE PN-25



Size Available

1/2" - 2"





Malleable Iron Pipe Fittings



THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES

VS MALLEABLE IRON FITTINGS are designed to confirm with the following industry standards:

MATERIAL:	ASTM A197	Cupola Malleable Iron
	ASTM A153	Zinc Coatings
DIMENSIONS:	ANSI/ASME B 16.3	Malleable Iron Threaded Fittings
	ASME B 16.14	Ferrous Pipe Plugs, Bushings, etc.
	ASME B 16.39	Malleable Iron Threaded Pipe Unions
THREADS:	ANSI/ASME B1.20.1	Pipe Threads. See data below. Threading.

MALLEABLE IRON - ANSI B 16.3					
Temperature		Class 150 psig	Class 300 psi ²		
Degrees C	Degrees F		Sizes 1/4 - 1	Sizes 1/4 - 2	Sizes 2 1/2 - 3
-29 to 66	-200 to 150	300	2000	1500	1000
93	200	265	1785	1350	910
121	250	225	1575	1200	825
149	300	185	1360	1050	735
177	366	150 ¹	1150	900	650
204	400		935	750	560
232	450		725	600	475
260	500		510	450	385
333	550		300	300	300

¹ Permissible for service temperature up to 366°F, reflecting the temperature of saturated steam at 150 psig.

² 14.5 psi = 1 bar = 100 kPa.

*All VS iron fittings are air pressure tested under water.

Class 300 Malleable Iron threaded fittings are marked with the numerals 300, the letters MI, and the size. Class 150 Malleable Iron threaded fittings have no pressure class markings.

All fittings shall be threaded with American National Standard Pipe Threads (ANSI/ASME B1.20.1) and shall have taper threads, except wrought couplings and wrought caps in sizes 1/8, 1/4, 3/8 and 1/2, which may have straight threads.

The International System (SI) metric equivalent of British units are shown throughout this catalogue.

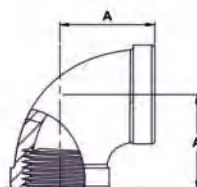
NPS (Nominal Pipe Size)	= DN* (Nominal Diameter)
Operating Pressure Class	= PN* (Pressure Number)
1 inch	= 25.4 millimetres
1 pound, weight	= 0.4536 kilograms
1 pound, pressure	= 0.06895 bars

*From the SI designations, Diamètre Nominal and Pression Nominale.

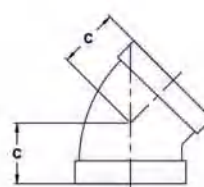
Art No- VSMF-1001

MALLEABLE IRON THREADED ELBOW CL-150

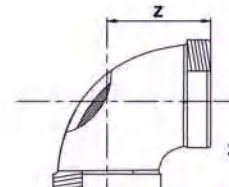
ASTM A197



90-deg ELBOW



45-deg ELBOW



90-deg REDUCING ELBOW

90° ELBOWS				45° ELBOWS				90° REDUCING ELBOWS				90° REDUCING ELBOWS					
Size		Dimension	Approx. Weight	Size		Dimension	Approx. Weight	Size		Dimensions		Approx. Weight	Size		Dimensions		Approx. Weight
NPS	DN	A		NPS	DN	C		NPS	DN	X	Z		NPS	DN	X	Z	
1/8	3	.69 17.5	.07 .03	*1/8	*3	.69 17.5	.07 .03	1/4x1/8	6x3	.74 18.8	.76 19.3	.08 .04	1 1/2x1 1/4	40x32	1.82 46.2	1.88 47.8	.95 .43
1/4	6	.81 20.6	.11 .05	1/4	6	.73 18.5	.11 .05	3/8x1/4	10x6	.88 22.4	.90 22.9	.11 .05	1 1/2x1	40x25	1.65 41.9	1.80 45.7	.86 .39
3/8	10	.95 24.1	.15 .07	3/8	10	.80 20.3	.15 .07	3/8x1/8	10x3	.81 20.5	.85 21.6	.12 .06	1 1/2x3/4	40x20	1.52 38.6	1.75 44.5	.66 .30
1/2	15	1.12 28.5	.22 .10	1.2	15	.88 22.4	.22 .09	1/2x3/8	15x10	1.04 26.4	1.03 26.2	.19 .09	2x1 1/2	50x40	2.02 51.3	2.16 54.9	1.4 .63
3/4	20	1.31 33.3	.35 .16	3/4	20	.98 24.9	.31 .14	1/2x1/4	15x6	.97 24.6	.98 24.9	.18 .08	2x1 1/4	50x32	1.90 48.3	2.10 53.3	1.3 .60
1	25	1.50 38.1	.55 .25	1	25	1.12 28.5	.51 .23	3/4x1/2	20x15	1.20 30.5	1.22 31.0	.29 .13	2x1	50x25	1.73 43.9	2.02 51.3	1.1 .51
1 1/4	32	1.75 44.5	.93 .42	1 1/4	32	1.29 32.8	.75 .34	3/4x3/8	20x10	1.12 28.5	1.13 28.7	.24 .11	2x3/4	50x20	1.60 40.6	1.97 50.0	.90 .41
1 1/2	40	1.94 49.3	1.1 .49	1 1/2	40	1.43 36.3	.97 .44	3/4x1/2	20x6	1.05 26.7	1.08 27.4	.22 .10	2 1/2x2	65x50	2.39 60.7	2.60 66.0	2.3 1.04
2	50	2.25 57.2	1.8 .80	2	50	1.68 42.7	1.6 .71	*3/4x1/8	*20x3	1.13 28.7	1.13 28.7	.31 .14	2 1/2x1 1/2	65x40	2.16 54.9	2.51 63.8	2.2 1.01
2 1/2	65	2.70 68.6	2.9 1.3	2 1/2	65	1.95 49.5	2.4 1.1	1 x 3/4	25x20	1.37 34.8	1.45 36.8	.46 .21	3x2 1/2	80x65	2.83 71.9	2.99 75.9	3.6 1.62
3	80	3.08 78.2	3.9 1.8	3	80	2.17 55.1	3.3 1.5	1x1/2	25x15	1.26 32.0	1.36 35.5	.44 .20	3x2	80x50	2.52 64.0	2.89 73.4	2.7 1.21
3 1/2	90	3.42 86.9	6.2 2.8	3 1/2	90	2.39 60.7	5.8 2.6	1x3/8	25x10	1.18 30.0	1.27 32.3	.41 .19	4x3	100x80	3.30 83.8	3.60 91.4	7.7 .35
4	100	3.79 96.3	8.2 3.7	4	100	2.61 66.3	6.2 2.8	1 1/4x1	32x25	1.58 40.1	1.67 42.4	.75 .34					
5	125	4.50 114.3	12.6 5.7	5	125	3.05 77.5	11.5 5.2	1 1/4x3/4	32x20	1.45 36.8	1.62 41.2	.57 .26					
6	150	5.13 130.3	19.6 8.9	6	150	3.46 87.9	13.9 6.3	1 1/4x1/2	32x15	1.34 34.0	1.53 38.9	.51 .23					

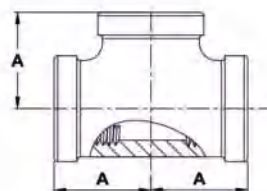
*These sizes not specified in ASME/ANSI B16.3

INCHES	POUNDS
MILLIMETRES	KILOGRAMS

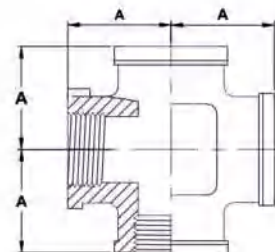
Art No- VSMF-1002

MALLEABLE IRON THREADED TEE/CROSS CL-150

ASTM A197



TEE



CROSS

CROSSES				TEES			
Size		Dimension	Approx. Weight	Size		Dimension	Approx. Weight
NPS	DN	A		NPS	DN	A	
1/8	3	.69 17.5	.15 .07	1/8	3	.69 17.5	.09 .04
1/4	6	.81 20.6	.17 .08	1/4	6	.81 20.6	.11 .05
3/8	10	.95 24.1	.31 .14	3/8	10	.95 24.1	.20 .09
1/2	15	1.12 28.5	.30 .14	1/2	15	1.12 28.5	.24 .11
3/4	20	1.31 33.3	.49 .22	3/4	20	1.31 33.3	.42 .19
1	25	1.50 38.1	.79 .36	1	25	1.50 38.1	.66 .30
1 1/4	32	1.75 44.5	1.3 .57	1 1/4	32	1.75 44.5	1.1 .49
1 1/2	40	1.94 49.3	1.5 .66	1 1/2	40	1.94 49.3	1.3 .59
2	50	2.25 57.2	2.4 1.1	2	50	2.25 57.2	2.0 .91
2 1/2	65	2.70 68.6	4.6 2.09	2 1/2	65	2.70 68.6	3.6 1.61
3	80	3.08 78.2	6.1 2.76	3	80	3.08 78.2	5.0 2.28
3 1/2	90	3.42 86.9	8.6 3.89	3 1/2	90	3.42 86.9	7.2 3.28
4	100	3.79 96.3	11.9 5.38	4	100	3.79 96.3	9.3 4.23
5	125	4.50 114.3	22.0 10.0	5	125	4.50 114.3	17.2 7.82
6	150	5.13 130.3	23.9 10.84	6	150	5.13 130.3	22.9 10.40

INCHES
MILLIMETRES

POUNDS
KILOGRAMS

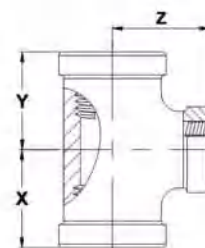
Art No- VSMF-1003

MALLEABLE IRON THREADED REDUCING TEES CL-150

ASTM A197



THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES



REDUCING TEE

Size		Dimensions			Approx. Weight	Size		Dimensions			Approx. Weight
NPS	DN	X	Y	Z		NPS	DN	X	Y	Z	
1/4 x 1/4 x 1/8	6 x 6 x 3	.74 18.8	.74 18.8	.76 19.3	.12 .05	1 x 3/4 x 1	25 x 20 x 25	1.50 38.1	1.45 36.8	1.50 38.1	.74 .33
3/8 x 3/8 x 1/4	10 x 10 x 6	.88 22.4	.88 22.4	.90 22.9	.20 .09	1 x 3/4 x 3/4	25 x 20 x 20	1.37 34.8	1.31 33.3	1.45 36.8	.62 .28
3/8 x 1/4 x 3/8	10 x 6 x 10	.95 24.1	.90 22.9	.95 24.1	.19 .09	1 x 3/4 x 1/2	25 x 20 x 15	1.26 32.0	1.20 30.5	1.36 35.5	.56 .25
3/8 x 1/4 x 1/4	10 x 6 x 6	.88 22.4	.81 20.6	.90 22.9	.20 .09	1 x 1/2 x 1	25 x 15 x 25	1.50 38.1	1.36 35.5	1.50 38.1	.68 .31
1/2 x 1/2 x 3/8	15 x 15 x 10	1.04 26.4	1.05 26.4	1.03 26.2	.28 .13	1 x 1/2 x 3/4	25 x 15 x 20	1.37 34.8	1.22 31.0	1.45 36.8	.59 .27
1/2 x 1/2 x 1/4	15 x 15 x 6	.97 24.6	.97 24.6	.98 24.9	.26 .12	1 x 1/2 x 1/2	25 x 15 x 15	1.26 32.0	1.12 28.5	1.36 35.5	.59 .27
1/2 x 3/8 x 1/2	15 x 10 x 15	1.12 28.5	1.03 26.2	1.12 28.5	.30 .14	1 1/4 x 1 1/4 x 1	32 x 32 x 25	1.58 40.1	1.58 40.1	1.67 42.4	1.11 .52
1/2 x 3/8 x 3/8	15 x 10 x 10	1.04 26.4	.95 24.1	1.03 26.2	.27 .12	1 1/4 x 1 1/4 x 3/4	32 x 32 x 20	1.45 36.8	1.45 36.8	1.62 41.2	.90 .41
1/2 x 1/4 x 1/2	15 x 6 x 15	1.12 28.5	.98 24.9	1.12 28.5	.28 .13	1 1/4 x 1 1/4 x 1/2	32 x 32 x 15	1.34 34.0	1.34 34.0	1.53 38.9	.86 .39
3/4 x 3/4 x 1/2	20 x 20 x 15	1.20 30.5	1.20 30.5	1.22 31.0	.42 .19	1 1/4 x 1 1/4 x 3/8	32 x 32 x 10	1.26 32.0	1.26 32.0	1.44 36.6	.75 .34
3/4 x 3/4 x 3/8	20 x 20 x 10	1.12 28.5	1.12 28.5	1.13 28.7	.39 .18	1 1/4 x 1 x 1 1/4	32 x 25 x 32	1.75 44.5	1.67 42.4	1.75 44.5	1.1 .52
3/4 x 3/4 x 1/4	20 x 20 x 6	1.05 26.7	1.05 26.7	1.08 27.4	.35 .16	1 1/4 x 1 x 1	32 x 25 x 25	1.58 40.1	1.50 38.1	1.67 42.4	1.1 .52
3/4 x 1/2 x 3/4	20 x 15 x 20	1.31 33.3	1.22 31.0	1.31 33.3	.47 .21	1 1/4 x 1 x 3/4	32 x 25 x 20	1.45 36.8	1.37 34.8	1.62 41.2	.83 .38
3/4 x 1/2 x 1/2	20 x 15 x 15	1.20 30.5	1.12 28.5	1.22 31.0	.42 .19	1 1/4 x 1 x 1/2	32 x 25 x 15	1.34 34.0	1.26 32.0	1.53 38.9	.78 .35
3/4 x 3/8 x 3/4	20 x 10 x 20	1.31 33.3	1.13 28.7	1.31 33.3	.44 .20	1 1/4 x 3/4 x 1 1/4	32 x 20 x 32	1.75 44.5	1.62 41.2	1.75 44.5	1.1 .50
3/4 x 3/8 x 3/8	20 x 10 x 10	1.12 28.5	.95 24.1	1.13 28.7	.33 .15	1/4 x 3/4 x 1	32 x 20 x 25	1.58 40.1	1.45 36.8	1.67 42.4	.92 .42
3/4 x 1/4 x 3/4	20 x 6 x 20	1.31 33.3	1.08 27.4	1.31 33.3	.42 .19	1 1/4 x 3/4 x 3/4	32 x 20 x 20	1.45 36.8	1.31 33.3	1.62 41.2	.90 .41
1 x 1 x 3/4	25 x 25 x 20	1.37 34.8	1.37 34.8	1.45 36.8	.62 .28	1 1/2 x 1 1/2 x 1 1/4	40 x 40 x 32	1.82 46.2	1.82 46.2	1.88 47.8	1.3 .61
1 x 1 x 1/2	25 x 25 x 15	1.26 32.0	1.26 32.0	1.36 35.5	.59 .27	1 1/2 x 1 1/2 x 1	40 x 40 x 25	1.65 41.9	1.65 41.9	1.80 45.7	1.2 .56
1 x 1 x 3/8	25 x 25 x 10	1.18 30.0	1.18 30.0	1.27 32.3	.53 .24	1 1/2 x 1 1/2 x 3/4	40 x 40 x 20	1.52 38.6	1.52 38.6	1.75 44.5	1.1 .52
1 x 1 x 1/4	25 x 25 x 6	1.11 28.2	1.11 28.2	1.22 31.0	.55 .25	1 1/2 x 1 1/2 x 1/2	40 x 40 x 15	1.41 35.8	1.41 35.8	1.66 42.2	.86 .39

INCHES

MILLIMETRES

POUNDS

KILOGRAMS

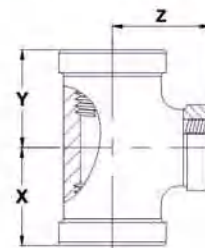
Art No- VSMF-1003

MALLEABLE IRON THREADED REDUCING TEES CL-150

ASTM A197 (CONTINUED)



THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES



REDUCING TEE

Size		Dimensions			Approx. Weight	Size		Dimensions			Approx. Weight
NPS	DN	X	Y	Z		NPS	DN	X	Y	Z	
1 1/2 x 1 1/4 x 1 1/2	40 x 32 x 40	1.94	1.88	1.94	1.6	2 1/2 x 2 1/2 x 1 1/2	65 x 65 x 40	2.16	2.16	2.51	2.9
		49.3	47.8	49.3	.73			54.9	54.9	63.8	1.3
1 1/2 x 1 1/4 x 1 1/4	40 x 32 x 32	1.82	1.75	1.88	1.3	2 1/2 x 2 1/2 x 1 1/4	65 x 65 x 32	2.04	2.04	2.45	2.9
		46.2	44.5	47.8	.61			51.8	51.8	62.2	1.3
1 1/2 x 1 1/4 x 1	40 x 32 x 25	1.65	1.58	1.80	1.2	2 1/2 x 2 1/2 x 1	65 x 65 x 25	1.87	1.87	2.37	2.6
		41.9	40.1	45.7	.54			47.5	47.5	60.2	1.2
1 1/2 x 1 1/4 x 3/4	40 x 32 x 20	1.52	1.45	1.75	1.1	2 1/2 x 2 1/2 x 3/4	65 x 65 x 20	1.74	1.74	2.32	2.2
		38.6	36.3	44.5	.50			44.2	44.2	58.9	1.0
2 x 2 x 1 1/2	50 x 50 x 40	2.02	2.02	2.16	2.1	2 1/2 x 2 x 2 1/2	65 x 50 x 65	2.70	2.60	2.70	4.1
		51.3	51.3	54.9	.96			68.6	66.0	68.6	1.9
2 x 2 x 1 1/4	50 x 50 x 32	1.90	1.90	2.10	1.9	2 1/2 x 2 x 2	65 x 50 x 50	2.39	2.25	2.60	3.3
		48.3	48.3	53.3	.89			60.7	57.2	66.0	1.5
2 x 2 x 1	50 x 50 x 25	1.73	1.73	2.02	1.6	*2 1/2 x 2 x 1 1/2	*65 x 50 x 40	2.81	2.81	2.50	4.0
		43.9	43.9	51.3	.73			71.4	71.4	63.5	1.8
2 x 2 x 3/4	50 x 50 x 20	1.60	1.60	1.97	1.6	3 x 3 x 2 1/2	80 x 80 x 65	2.83	2.83	2.99	4.9
		40.6	40.6	50.0	.72			71.9	71.9	76.0	2.2
2 x 2 x 1/2	50 x 50 x 15	1.49	1.49	1.88	1.3	3 x 3 x 2	80 x 80 x 50	2.52	2.52	2.89	3.9
		37.9	37.9	47.8	.61			64.0	64.0	73.4	1.8
*2 x 2 x 3/8	*50 x 50 x 10	1.49	1.49	1.88	1.6	3 x 3 x 1 1/2	80 x 80 x 40	2.29	2.29	2.80	3.7
		37.9	37.9	47.8	.73			58.2	58.2	71.1	1.7
2 x 1 1/2 x 2	50 x 40 x 50	2.25	2.16	2.25	2.3	3 x 3 x 1 1/4	80 x 80 x 32	2.17	2.17	2.74	3.7
		57.2	54.8	57.2	1.0			55.1	55.1	69.6	1.7
2 x 1 1/2 x 1 1/2	50 x 40 x 40	2.02	1.94	2.16	2.1	4 x 4 x 3	100 x 100 x 80	3.30	3.30	3.60	8.1
		51.3	49.3	54.9	.96			83.8	83.8	91.4	3.7
2 x 1 1/2 x 1 1/4	50 x 40 x 32	1.90	1.82	2.10	1.8	4 x 4 x 2 1/2	100 x 100 x 65	3.05	3.05	3.51	8.1
		48.3	46.2	53.3	.82			77.5	77.5	89.2	3.7
2 x 1 1/2 x 1	50 x 40 x 25	1.73	1.65	2.02	1.6	4 x 4 x 2	100 x 100 x 50	2.74	2.74	3.41	6.8
		43.9	41.9	51.3	.73			69.6	69.6	86.6	3.1
2 x 1 1/4 x 2	50 x 32 x 50	2.25	2.10	2.25	2.3	4 x 4 x 1 1/2	100 x 100 x 40	2.51	2.51	3.32	6.3
		57.2	53.3	57.2	1.0			63.8	63.8	84.3	2.9
2 x 1/4 x 1 1/2	50 x 32 x 40	2.02	1.88	2.16	1.9	*4 x 4 x 1 1/4	*100 x 100 x 32	2.75	2.75	3.44	6.1
		51.3	47.8	54.9	.86			69.9	69.9	87.4	2.8
2 x 1 1/4 x 1 1/4	50 x 32 x 32	1.90	1.75	2.10	1.9	*4 x 4 x 1	*100 x 100 x 25	2.75	2.75	3.44	5.8
		48.3	44.5	53.3	.89			69.9	69.9	87.4	2.6
2 x 1 x 2	50 x 25 x 50	2.25	2.02	2.25	2.1	6 x 6 x 4	150 x 150 x 100	4.13	4.13	4.94	17.9
		57.2	51.3	57.2	.95			104.9	104.9	125.5	8.1
2 x 3/4 x 2	50 x 20 x 50	2.25	1.97	2.25	2.1	6 x 6 x 3	150 x 150 x 80	3.64	3.64	4.75	16.1
		57.2	50.0	57.2	.95			92.5	92.5	120.7	7.3
2 x 1/2 x 2	50 x 15 x 50	2.25	1.88	2.25	2.1	6 x 6 x 2	150 x 150 x 50	3.08	3.08	4.56	13.9
		57.2	47.8	57.2	.95			78.2	78.2	115.8	16.3
2 1/2 x 2 1/2 x 2	65 x 65 x 50	2.39	2.39	2.60	3.3						
		60.7	60.7	66.0	1.5						

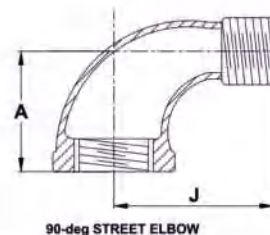
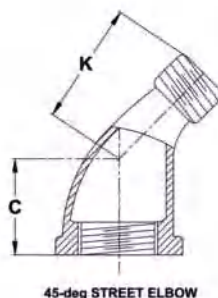
*These sizes not specified by ASME/ANSI B16.3

INCHES	POUNDS
MILLIMETRES	KILOGRAMS

Art No- VSMF-1004

MALLEABLE IRON THREADED STREET ELBOWS CL-150

ASTM A197



45° STREET ELBOWS					90° STREET ELBOWS				
Size		Dimensions		Approx. Weight	Size		Dimensions		Approx. Weight
NPS	DN	C	K		NPS	DN	A	J	
*1/8		.69	.88	.06	1/8		.69	1.00	.07
	*3	17.5	22.4	.03		3	17.5	25.4	.03
1/4		.73	.94	.09	1/4		.81	1.19	.09
	6	18.5	23.9	.04		6	20.6	30.2	.04
3/8		.80	1.03	.13	3/8		.95	1.44	.13
	10	20.3	26.2	.06		10	24.1	36.6	.06
1/2		.88	1.15	.17	1/2		1.12	1.63	.22
	15	22.4	29.2	.08		15	28.5	41.2	.10
3/4		.98	1.29	.29	3/4		1.31	1.89	.33
	20	24.9	32.8	.13		20	33.3	48.0	.15
1		1.12	1.47	.46	1		1.50	2.14	.55
	25	28.5	37.3	.21		25	38.1	54.4	.25
1 1/4		1.29	1.71	.79	1 1/4		1.75	2.45	.88
	32	32.8	43.4	.36		32	44.5	62.2	.40
1 1/2		1.43	1.88	.93	1 1/2		1.94	2.69	1.1
	40	36.3	47.8	.42		40	49.3	68.3	.52
2		1.68	2.22	1.5	2		2.25	3.26	1.8
	50	42.7	56.4	.66		50	57.2	82.8	.81
					2 1/2		2.70	3.86	2.9
						65	68.6	98.0	1.3
					3		3.08	4.51	3.9
						80	78.2	114.6	1.8
					4		3.79	5.69	8.4
						100	96.3	144.5	3.8

*This size not specified in ASME/ANSI B16.3

INCHES	POUNDS
MILLIMETRES	KILOGRAMS

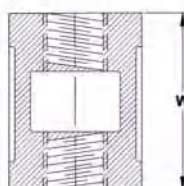
Art No- VSMF-1005

MALLEABLE IRON THREADED COUPLINGS CL-150

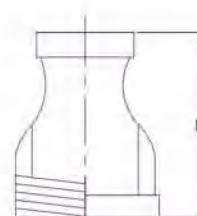
ASTM A197



THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES



COUPLING



REDUCING
COUPLING

COUPLINGS				REDUCED COUPLINGS				REDUCING COUPLINGS			
Size		W	Approx. Weight	Size		M	Approx. Weight	Size		M	Approx. Weight
NPS	DN			NPS	DN			NPS	DN		
1/8	3	.96	.07	1/4 x 1/8	6 x 3	1.00	.08	2 x 1	50 x 25	2.81	.93
		24.4	.03			25.4	.04			71.4	.42
1/4	6	1.06	.07	3/8 x 1/4	10 x 6	1.13	.11	2 x 3/4	50 x 20	2.81	.81
		26.9	.03			28.7	.05			71.4	.37
3/8	10	1.16	.11	3/8 x 1/8	10 x 3	1.13	.11	2 x 1/2	50 x 15	2.81	.90
		29.5	.05			28.7	.05			71.4	.41
1/2	15	1.34	.18	1/2 x 3/8	15 x 10	1.25	.18	2 1/2 x 2	65 x 50	3.25	1.6
		34.0	.08			31.8	.08			82.6	.72
3/4	20	1.52	.26	1/2 x 1/4	15 x 6	1.25	.13	2 1/2 x 1 1/2	65 x 40	3.25	1.4
		38.6	.12			31.8	.06			82.6	.62
1	25	1.67	.44	1/2 x 1/8	15 x 3	1.25	.13	2 1/2 x 1 1/4	65 x 32	3.25	1.5
		42.4	.20			31.8	.06			82.6	.67
1 1/4	32	1.93	.62	3/4 x 1/2	20 x 15	1.44	.22	2 1/2 x 1	65 x 25	3.25	1.0
		49.0	.28			36.6	.10			82.6	.46
1 1/2	40	2.15	.90	3/4 x 3/8	20 x 10	1.44	.22	3 x 2 1/2	80 x 65	3.69	2.4
		54.6	.41			36.6	.10			93.7	1.07
2	50	2.53	1.2	3/4 x 1/4	20 x 6	1.44	.20	3 x 2	80 x 50	3.69	2.1
		64.3	.56			36.6	.09			93.7	.94
2 1/2	65	2.88	1.9	1 x 3/4	25 x 20	1.69	.35	3 x 1 1/2	80 x 40	3.69	1.9
		73.2	.88			42.9	.16			93.7	.89
3	80	3.18	2.6	1 x 1/2	25 x 15	1.69	.31	3 x 1 1/4	80 x 32	3.69	2.0
		80.8	1.2			42.9	.14			93.7	.92
*3 1/2	*90	3.74	4.5	1 x 3/8	25 x 10	1.69	.31	3 x 1	80 x 25	3.69	2.0
		95.0	2.0			42.9	.14			93.7	.93
4	100	3.69	4.6	1 x 1/4	25 x 6	1.69	.30	*3 1/2 x 3	*90 x 80	4.0	4.9
		93.7	2.1			42.9	.13			101.6	.22
*5	*125	4.25	6.6	1 1/4 x 1	32 x 25	2.06	.55	*3 1/2 x 2 1/2	*90 x 65	4.0	.44
		108.0	3.0			52.3	.25			101.6	2.0
*6	*150	4.75	9.9	1 1/4 x 3/4	32 x 20	2.06	.49	*3 1/2 x 2	*90 x 50	4.0	4.2
		120.7	4.5			52.3	.22			101.6	1.9
				1 1/4 x 1/2	32 x 15	2.06	.44	4 x 3 1/2	100 x 90	4.38	4.2
						52.3	.20			111.3	1.9
				1 1/2 x 1 1/4	40 x 32	2.31	.70	4 x 3	100 x 80	4.38	3.9
						58.7	.32			111.3	1.8
				1 1/2 x 1	40 x 25	2.31	.62	4 x 2 1/2	100 x 65	4.38	3.7
						58.7	.28			111.3	1.7
				1 1/2 x 3/4	40 x 20	2.31	.59	4 x 2	100 x 50	4.38	3.6
						58.7	.27			111.3	1.6
				1 1/2 x 1/2	40 x 15	2.31	.55	4 x 1 1/2	100 x 40	4.38	3.3
						58.7	.25			111.3	1.5
				2 x 1 1/2	50 x 40	2.81	1.0	*These sizes not specified in ASME/ANSI B16.3			
						71.4	.46				
				2 x 1 1/4	50 x 32	2.81	.97				
						71.4	.44				

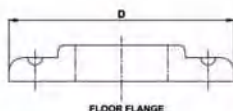
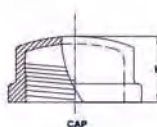
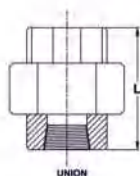
*These sizes not specified in ASME/ANSI B16.3

INCHES	POUNDS
MILLIMETRES	KILOGRAMS

Art No- VSMF-1006

MALLEABLE IRON THREADED UNION/CAP/FLOOR FLANGE CL-150

ASTM A197



*UNIONS				CAPS (ANSI B16.3)				FLOOR FLANGES			
Size		L	Approx. Weight	Size		H MIN	Approx. Weight	Size		D	Approx. Weight
NPS	DN			NPS	DN			NPS	DN		
1/4		1.32	.20	1/8		.53	.04	1/4		2.62	.24
	6	33.5	.09		3	13.5	.02		6	66.5	.11
3/8		1.52	.31	1/4		.63	.04	3/8		2.94	.37
	10	38.5	.14		6	16.0	.02		10	74.7	.17
1/2		1.59	.42	3/8		.74	.09	1/2		3.0	.57
	15	40.5	.19		10	18.8	.04		15	76	.26
3/4		1.91	.56	1/2		.87	.11	3/4		3.3	.68
	20	48.5	.27		15	22.1	.05		20	85	.31
1		2.11	.93	3/4		.97	.18	1		3.8	.82
	25	53.5	.42		20	24.6	.08		25	95	.37
1 1/4		2.32	1.3	1		1.16	.31	1 1/4		4.1	1.2
	32	59.0	.57		25	29.5	.14		32	105	.54
1 1/2		2.58	1.7	1 1/4		1.28	.53	1 1/2		4.5	1.5
	40	65.5	.78		32	32.5	.24		40	115	.66
2		2.85	2.6	1 1/2		1.33	.57	2		5.1	2.1
	50	72.5	1.2		40	33.8	.26		50	130	.96
2 1/2		3.29	4.6	2		1.45	.88	2 1/2		6.75	2.6
	65	83.5	2.1		50	36.8	.40		65	171.5	1.1
3		3.66	5.7	2 1/2		1.70	1.5	3		7.00	3.8
	80	93.0	2.6		65	43.2	.70		80	177.8	1.72
4		4.51	10.1	3		1.80	1.9				
	100	114.5	4.6		80	45.7	.86				
				3 1/2		1.90	-				
					90	48.3	-				
				4		2.08	3.5				
					100	52.8	1.6				
				5		2.32	-				
					125	58.9	-				
				6		2.55	7.3				
					150	64.8	3.29				

*Sizes 1" through 4" (DN 25 thru 100) conform to ASME/ANSI B16.39.

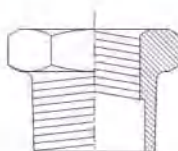
INCHES
MILLIMETRES

POUNDS
KILOGRAMS

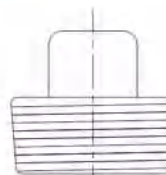
Art No- VSMF-1007

MALLEABLE IRON THREADED BUSH/PLUG CL-150

ASTM A197



HEX HEAD
BUSHING



SQUARE HEAD
PLUG

HEX HEAD BUSHINGS			HEX HEAD BUSHINGS			SQUARE HEAD PLUGS		
Size		Approx. Weight	Size		Approx. Weight	Size		Approx. Weight
NPS	DN		NPS	DN		NPS	DN	
1/4 x 1/8	6 x 3	.02	2 x 1	50 x 25	.81	*1/8	3	.02
		.01			.37			.01
3/8 x 1/8	10 x 3	.02	2 x 1 1/2	50 x 40	.70	*1/4	6	.02
		.01			.32			.01
3/8 x 1/4	10 x 6	.04	2 1/2 x 1	65 x 25	1.5	3/8	10	.04
		.02			.70			.02
1/2 x 1/8	15 x 3	.09	2 1/2 x 1 1/4	65 x 32	1.5	1/2	15	.09
		.04			.67			.04
1/2 x 1/4	15 x 6	.07	2 1/2 x 1 1/2	65 x 40	1.3	3/4	20	.11
		.03			.58			.05
1/2 x 3/8	15 x 10	.07	2 1/2 x 2	65 x 50	1.1	1	25	.15
		.03			.49			.07
3/4 x 1/8	2 x 3	.15	3 x 1	80 x 25	2.2	1 1/4	32	.26
		.07			1.0			.13
3/4 x 1/4	20 x 6	.15	3 x 1 1/4	80 x 32	2.2	1 1/2	40	.35
		.07			.99			.16
3/4 x 3/8	20 x 10	.13	3 x 1 1/2	80 x 40	2.2	2	50	.55
		.06			.99			.26
3/4 x 1/2	20 x 15	.11	3 x 2	80 x 50	2.0	2 1/2	65	.97
		.05			.91			.44
1 x 1/4	25 x 6	.26	3 x 2 1/2	80 x 65	1.5	3	80	1.4
		.12			.66			.63
1 x 3/8	2 x 10	.24	4 x 1	100 x 25	4.0	3 1/2	90	2.5
		.11			1.8			1.1
1 x 1/2	25 x 15	.22	4 x 1 1/4	100 x 32	4.0	4	100	2.5
		.10			1.8			1.1
1 x 3/4	25 x 20	.20	4 x 1 1/2	100 x 40	4.0	5	125	5.4
		.09			1.8			2.4
1 1/4 x 1/2	32 x 15	.37	4 x 2	100 x 50	3.7	6	150	7.5
		.17			1.7			3.4
1 1/4 x 3/4	32 x 20	.35	4 x 2 1/2	100 x 65	3.3			
		.16			1.5			
1 1/4 x 1	32 x 25	.29	4 x 3	100 x 80	3.1			
		.13			1.4			
1 1/2 x 3/4	40 x 20	.53						
		.24						
1 1/2 x 1	40 x 25	.49						
		.22						
1 1/2 x 1 1/4	40 x 32	.31						
		.14						
2 x 1/2	50 x 15	.84						
		.38						
2 x 3/4	50 x 20	.86						
		.39						

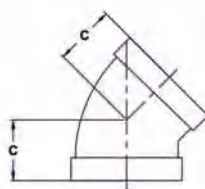
*Sizes NPS 1/8 & 1/4 (DN 3 & 6) are solid, all other sizes cored.

INCHES	POUNDS
MILLIMETRES	KILOGRAMS

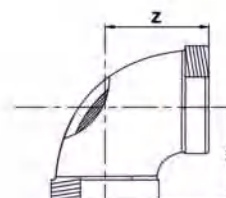
Art No- VSMF-1008

MALLEABLE IRON THREADED ELBOW/TEE CL-300

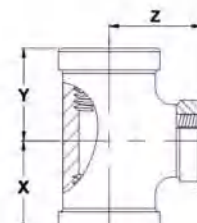
ASME/ANSI B16.3
ASTM A197



45-deg ELBOW



90-deg REDUCING
ELBOW



REDUCING TEE

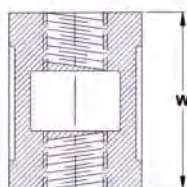
45° ELBOWS				90° ELBOWS				TEES			
Size		C	Approx. Weight	Size		A	Approx. Weight	Size		A	Approx. Weight
NPS	DN			NPS	DN			NPS	DN		
1/4	6	.81 20.6	.19 .09	1/4	6	.94 23.9	.19 .09	1/4	6	.94 23.9	.29 .13
3/8	10	.88 22.4	.28 .13	3/8	10	1.06 26.9	.29 .13	3/8	10	1.06 26.9	.42 .19
1/2	15	1.00 25.4	.44 .20	1/2	15	1.25 31.8	.50 .23	1/2	15	1.25 31.8	.72 .33
3/4	20	1.13 28.7	.70 .32	3/4	20	1.44 36.6	.77 .35	3/4	20	1.44 36.6	1.1 .50
1	25	1.31 33.3	1.1 .50	1	25	1.63 41.4	1.2 .53	1	25	1.63 41.4	1.7 .75
1 1/4	32	1.50 38.1	1.7 .75	1 1/4	32	1.94 49.3	1.8 .82	1 1/4	32	1.94 49.3	2.6 1.17
1 1/2	40	1.69 42.9	2.2 1.01	1 1/2	40	2.13 54.1	2.4 1.10	1 1/2	40	2.13 54.1	3.4 1.54
2	50	2.00 50.8	3.4 1.6	2	50	2.50 63.5	3.8 1.75	2	50	2.50 63.5	5.3 2.40
2 1/2	65	2.25 57.2	5.6 2.5	2 1/2	65	2.94 74.7	6.3 2.9	2 1/2	65	2.94 74.7	8.4 3.8
3	80	2.50 63.5	8.3 3.8	3	80	3.38 85.9	9.5 4.3	3	80	3.38 85.9	12.8 5.8

INCHES	POUNDS
MILLIMETRES	KILOGRAMS

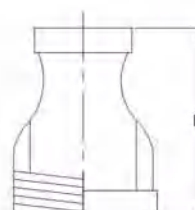
Art No- VSMF-1009

MALLEABLE IRON THREADED COUPLINGS CL-300

ASME/ANSI B16.3
ASTM A197



COUPLING



REDUCING
COUPLING

COUPLINGS				REDUCING COUPLINGS			
Size		Dimension	Approx. Weight	Size		Dimensions	Approx. Weight
NPS	DN	W		NPS	DN	M	
1/4	6	1.37 35.1	.17 .08	3/4 x 1/2	20 x 15	1.75 44.5	.55 .25
3/8	10	1.62 41.4	.26 .12	1 x 3/4	25 x 20	2.00 50.8	.83 .38
1/2	15	1.87 47.8	.44 .20	1 x 1/2	25 x 15	2.00 50.8	.77 .35
3/4	20	2.12 54.1	.72 .33	1 1/4 x 1	32 x 25	2.38 60.5	1.3 .57
1	25	2.37 60.5	1.1 .48	1 1/2 x 1 1/4	40 x 32	2.69 68.3	1.8 .82
1 1/4	32	2.87 73.2	2.87 .76	2 x 1 1/2	50 x 40	3.19 81.0	2.8 1.25
1 1/2	40	2.87 73.2	2.1 .96	2 1/2 x 2	65 x 50	3.69 93.7	4.5 2.0
2	50	3.62 92.2	3.5 1.59	3 x 2 1/2	80 x 65	4.06 103.1	6.3 2.9
2 1/2	65	4.12 104.9	5.4 2.4				
3	80	4.12 104.9	7.4 3.6				

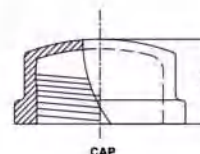
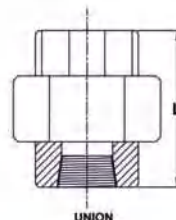
INCHES
MILLIMETRES

POUNDS
KILOGRAMS

Art No- VSMF-1010

MALLEABLE IRON THREADED UNION/CAP CL-300

ASTM A197



UNIONS (ANSI B16.39)				CAPS (ANSI B16.3)			
Size		Dimension	Approx. Weight	Size		Dimensions	Approx. Weight
NPS	DN	L		NPS	DN	H MIN.	
1/2	15	2.09 .53	.64 .29	1/2	15	.98 24.9	.26 .12
3/4	20	2.23 56.6	.97 .44	3/4	20	1.08 27.4	.39 .18
1	25	2.49 63.2	1.5 .68	1	25	1.26 32.0	.62 .28
1 1/4	32	2.72 .69	2.2 1.0	1 1/4	32	1.38 35.1	.98 .44
1 1/2	40	2.95 .75	2.6 1.20	1 1/2	40	1.43 36.3	1.32 .60
2	50	3.44 87.3	4.2 1.92	2	50	1.68 42.7	1.91 .87
2 1/2	65	3.89 98.8	7.3 3.3				
3	80	4.24 107.8	10.5 4.8				

INCHES
MILLIMETRES

POUNDS
KILOGRAMS



OTHER RANGE OF PRODUCTS

THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES



Art No. VS-1051
Elbow Union



Art No. VS-1050
Elbow Male/Male



Galvanized Pipe Nipples



Art No. VS-1053
Elbow Hot Galvanized



Art No. VS-1054
Half Socket

Pipe Nipples
phosphate finish



Art No. VS-3061
Sockolet



Art No. VS-1055
Tee Male/Female



Pipe Nipples
Stainless steel finish



Art No. VS-IBR-3062
**Elbow Socket Weld
IBR Approved**



Art No. VS-IBR-3063
**Tee Socket Weld
IBR Approved**

OUR ASSOCIATES



THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES



A Navratna Company



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Indian Railways



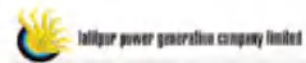
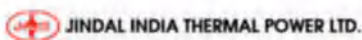
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GUJARAT STATE ELECTRICITY LTD.



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**THE NO. 1 FORGED
STEEL PIPE FITTINGS & VALVES**

Vijay Cycle & Steel Industries
An ISO 9001:2015 & 14001:2015 Certified Company

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