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# **HIGH PRESSURE FORGED STEEL FITTINGS REINFORCING FITTINGS OUTLET**

Member of CISQ Federation



**CERTIFIED MANAGEMENT SYSTEM**  
**ISO 9001**

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**CERTIFIED MANAGEMENT SYSTEM**  
**ISO 9001**

# STEEL FITTINGS FOR HIGH PRESSURE SERVICE

## A. TYPE

WELDING OUTLETS	LATERAL OUTLETS	SWEEPOLETS
SOCKET OUTLETS	ELBOW OUTLETS	NIPOFLANGES OUTLETS
THREADED OUTLETS	NIPPLE OUTLETS	

## B. DIMENSIONS

### STANDARD PRODUCTION

TYPE	CLASS	SCHEDULE	BRANCH	
			FROM	TO
WELDING OUTLETS Reducing Size	-	STD	1/8"	20"
	-	XS	1/8"	20"
	-	160	1/8"	10"
	-	XXS	1/8"	10"
WELDING OUTLETS Full Size	-	STD	1/2"	4"
	-	XS	1/2"	4"
	-	160	1/2"	4"
	-	XXS	1/2"	4"
SOCKET OUTLETS Reducing Size	3000	-	1/8"	10"
	6000	-	1/2"	2"
	9000	-	1/2"	2"
SOCKET OUTLETS Full Size	3000	-	1/2"	4"
THREADED OUTLETS Reducing Size	3000	-	1/8"	10"
	6000	-	1/4"	2"
THREADED OUTLETS Full Size	3000	-	1/2"	4"
LATERAL OUTLETS Butt Weld-Screwed-Socket Weld	3000	-	1/4"	2"
	6000	-	1/4"	1.1/2"
ELBOW OUTLETS Butt Weld-Screwed-Socket Weld	3000	-	1/4"	2"
	6000	-	1/4"	1.1/2"
NIPPLE OUTLETS Screwed	3000	XS	1/2"	2"
	6000	XXS	1/2"	2"
NIPPLE OUTLETS Socket Weld	3000	XS	1/2"	2"
	6000	160	1/2"	2"
SWEEPOLETS			1.1/4"	24"

## C. MATERIAL

ASTMA105	Carbon Steel Forgings.
ASTMA182	Forged or Rolled Alloy-Steel Forged Fittings.
ASTM A350	Carbon and Low-Alloy Steel Forgings.
ASTM B564	Nickel Alloy Forgings.

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# STEEL FITTINGS FOR HIGH PRESSURE SERVICE

## D. MARKING

MSS	SP25	Standard marking system
ASTM		A105- A182- A350- B564

## E. DOCUMENTS & CERTIFICATES

DIN 50049/3.1B - EN 10204/3.1B

## F. SURFACE AND PROTECTIVE TREATMENTS

Carbon Steel fittings	Phosphatizing treatment - Oil treatment
Alloy and low alloy fittings	Oil treatment
Stainless Steel fittings	Pickling treatment
ARC zinc-coated	According to ASTM B633
Hot dip Galvanizing	according to ASTM A123

## G. PACKING

. packing is made in CARTONS or BAGS.

# STEEL FITTINGS FOR HIGH PRESSURE SERVICE

## H. ORDER INSTRUCTIONS

In order to achieve a better service, customers are kindly requested to clearly indicate the following information in the order as per act below:

Parameter name	Value (examples)
Quantity	N°25
Type of product	WELDING OUTLETS
Dimension	8" – 6" X 1"
Class designation	40 x 40
Applicable normative and type of ends	ANSI B16.25 BW
Material type and grade	ASTM A182 - Gr. F316L
Dimension normative	ASME B31.1 – ASME B31.3
Normative for protective coating	ASTM A123 - Hot dip Galvanizing
Type of certification	DIN 50049 - EN 10204/3.1B
Request for specific certification by external Bodies	

## I. USEFUL INFORMATION

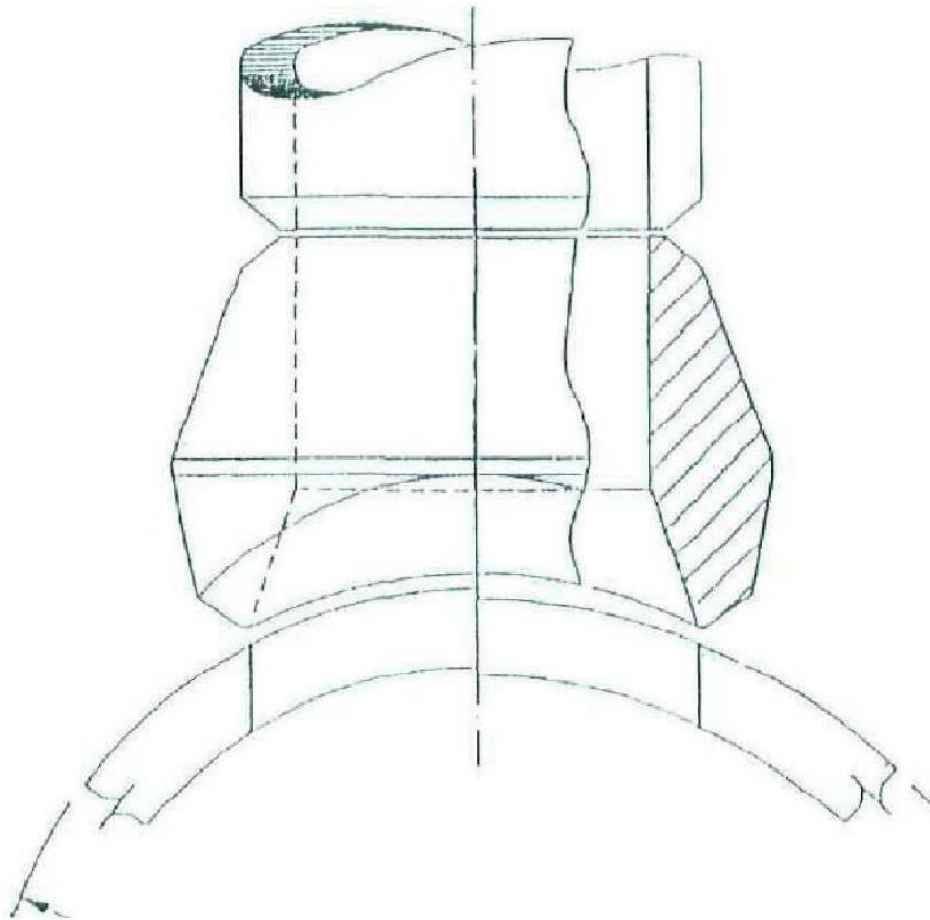
### MAINTENANCE

- Keep supplied pieces in the IML original packing.
- Do not store pieces in damp areas.
- Do not store pieces in contact with water.
- Handle threaded parts with care.

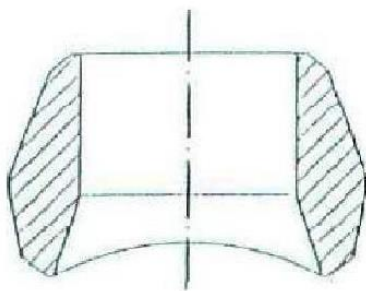
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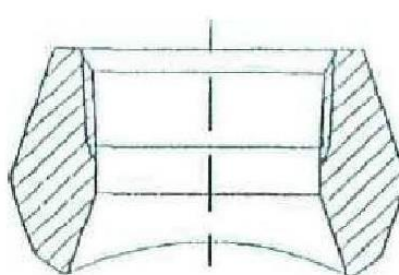
# STEEL FITTINGS FOR HIGH PRESSURE SERVICE



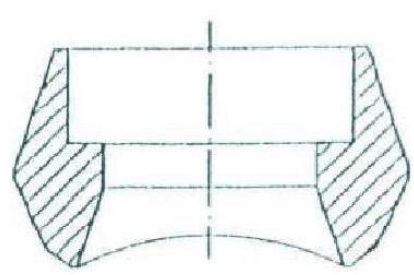
OUTLET TYPE



WELDING OUTLET



THREADED OUTLET



SOCKET OUTLET



# STEEL FITTINGS FOR HIGH PRESSURE SERVICE

TYPE		SCHEDULE / CLASS DESIGNATION											
BUTT WELD		STD-XS											
THREADED		3000											
SOCKET WELD		3000											
BRANCH SIZE	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	3.1/2"	4"
NOMINAL PIPE SIZE	3/8"	1/2"+1"	1/2+1"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	3.1/2"	4"
	1/2"	1.1/4"+36"	1.1/4"+36"	3/4"+1"	1"	1.1/4"+1.1/2"	1.1/2"	2"	2.1/2"	3"	3.1/2"	4"	5"
	3/4"+1"	flat	flat	2"+2.1/2"	1.1/4+1.1/2"	2"	2"+2.1/2"	2.1/2"	3"	3.1/2"	4"	5"	6"
	1.1/4"+2.1/2"			3"+6"	3"+6"	2.1/2"	3"+3.1/2"	3"	3.1/2"+4"	4"	5"	6"	8"
	3"+36"			10"+36"	6"+12"	3"+3.1/2"	4"+5"	5"+6"	5"+6"	5"	6"	8"	10"
flat			flat	14"+36"	4"+5"	6"+8"	8"+12"	8"+10"	6"	8"	10"	12"+14"	16"+20"
				flat	6"+10"	10"+18"	14"+24"	12"+18"	8"	10"	12"+14"	16"+20"	24"+36"
					12"+36"	20"+36"	26"+36"	20"+36"	10"+12"	14"+18"	16"+24"	16"+20"	24"+36"
					flat	Flat	flat	flat	20"+36"	24"+36"	flat	flat	flat

A

TYPE		CLASS DESIGNATION											
THREADED		6000											
SOCKET WELD		6000											
BRANCH SIZE				1/2"	3/4"	1"	1.1/4"	1.1/2"	2"				
NOMINAL PIPE SIZE				3/4+1"	1"	1.1/4+1.1/2"	1.1/2"	2"	2.1/2"				
				1.1/4+2"	1.1/4"+2.1/2"	2+2.1/2"	2"+2.1/2"	2.1/2"	3"				
				2.1/2"+6"	3"+10"	3"+10"	4"+8"	4"+5"	4"+5"				
				8"+36"	12"+36"	12"+36"	10"+20"	6"+8"	6"				
				flat	flat	flat	24"+36"	10"+18"	8"+10"				
						flat	20"+36"	12"+21"					
							flat	24"+36"					
								flat					

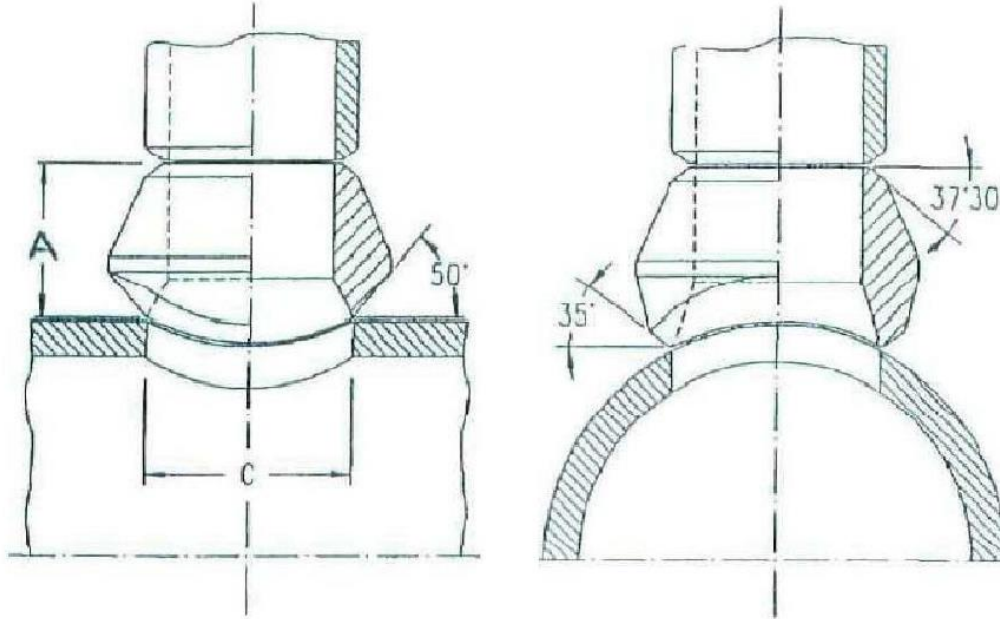
TYPE		SCHEDULE											
BUTT WELD		160 -XXS											
BRANCH SIZE				1/2"	3/4"	1"	1.1/4"	1.1/2"	2"				
NOMINAL PIPE SIZE				1/2"	3/4"+1"	1.1/4+1.1/2"	1.1/4+1.1/2"	1.1/2"	2"				
				1.1/2"+36"	2.1/2"+6"	2"+2.1/2"	2"+2.1/2"	3+3.1/2"	2.1/2"				
				flat	8"+36"	12"+36"	12"+36"	4"+8"	4"+5"				
					flat	flat	flat	10"+20"	6"+8"				
								24"+36"	10"+18"				
							flat	20"+36"					
								flat					

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# STEEL FITTINGS FOR HIGH PRESSURE SERVICE

## BUTT WELD REDUCING SIZE



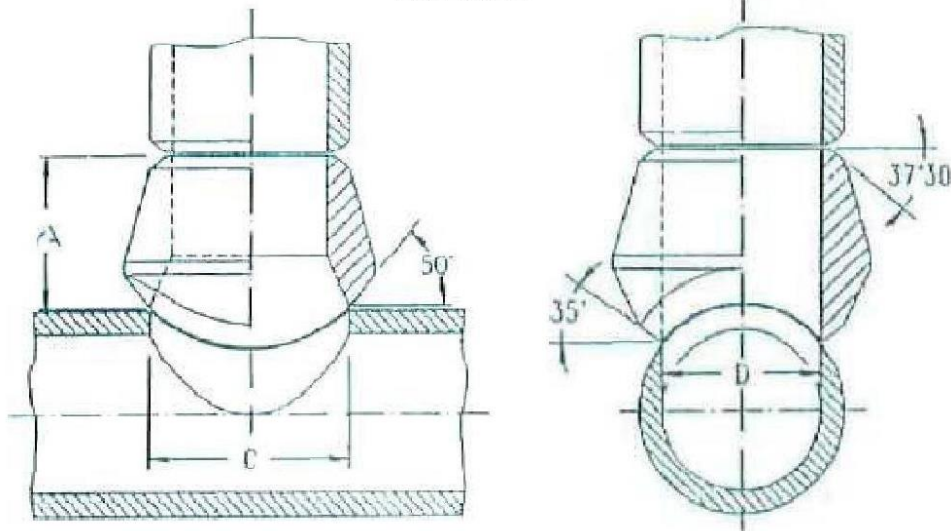
BRANCH SCHEDULE	BRANCH SIZE		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	3.1/2"	4"
STD XS	A	MM	17.5	17.5	20.6	25.5	27	33.5	33.5	36	38.1	41.3	44.5	47.6	50.8
		INCH	0.69	0.69	0.81	1	1.06	1.32	1.32	1.42	1.5	1.63	1.75	1.87	2.00
	C	MM	15.8	15.8	19	23.8	30	36.5	44.5	50.8	65	76.2	93.6	101.6	120.8
		INCH	0.62	0.62	0.75	0.94	1.18	1.44	1.75	2	2.56	3	3.68	4	4.76
160	A	MM				28.5	31.7	38.1	44.5	50.8	55.5	61.9	73		84.1
		INCH				1.12	1.25	1.5	1.75	2	2.18	2.44	2.87		3.31
XXS	C	MM				14.3	19	25.4	33.3	38.1	42.8	54	73		98.4
		INCH				0.56	0.75	1	1.31	1.5	1.68	2.13	2.87		3.87

DIMENSIONS IN INCHES  
WEIGHTS: SEE APPENDIX PAGE 8

IN ACCORDANCE WITH ANSI-ASME 31.1  
ANSI-ASME 31.3 / MSS SP 97  
BUTT WELD PARTS: ANSI-ASME B 16.9

# STEEL FITTINGS FOR HIGH PRESSURE SERVICE

BUTT WELD  
FULL SIZE



BRANCH SCHEDULE	BRANCH SIZE		1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	3.1/2"	4"
STD	A	MM	25.5	27	33.5	33.5	36	38.1	41.3	44.5	50.8	50.8
		INCH	1	1.06	1.32	1.32	1.42	1.5	1.63	1.75	2	2
	C	MM	23.8	30	36.5	44.5	50.8	65	76.2	93.6	101.6	120.6
		INCH	0.94	1.18	1.44	1.75	2	2.56	3	3.68	4	4.75
	D	MM	15.8	20.6	25.2	35	41.3	52.4	62	77.8	90.5	101.6
		INCH	0.62	0.81	1.03	1.38	1.63	2.06	2.44	3.06	3.56	4
XS	A	MM	25.5	27	33.5	33.5	36	38.1	41.3	44.5	47.63	50.8
		INCH	1	1.06	1.32	1.32	1.42	1.5	1.62	1.75	1.87	2
	C	MM	23.8	30.1	36.5	44.5	50.8	65	76.2	93.6	101.6	120.6
		INCH	0.94	1.18	1.44	1.75	2	2.56	3	3.68	4	4.75
	D	MM	15.8	20.6	26.2	35	41.3	52.4	62	77.8	90.5	101.6
		INCH	0.62	0.81	1.03	1.38	1.63	2.06	2.44	3.06	3.56	4
160 XXS	A	MM	28.6	31.7	38.1	44.5	50.8	55.5	61.9	73		84.1
		INCH	1.13	1.25	1.5	1.75	2	2.18	2.44	2.87		3.31
	C	MM	14.3	19	25.4	33.4	38.1	42.8	54	73		98.4
		INCH	0.56	0.75	1	1.31	1.5	1.68	2.12	2.87		3.87
	D	MM	14.3	19	25.4	33.4	38.1	42.6	54	73		98.4
		INCH	0.56	0.75	1	1.31	1.5	1.68	2.13	2.87		3.87

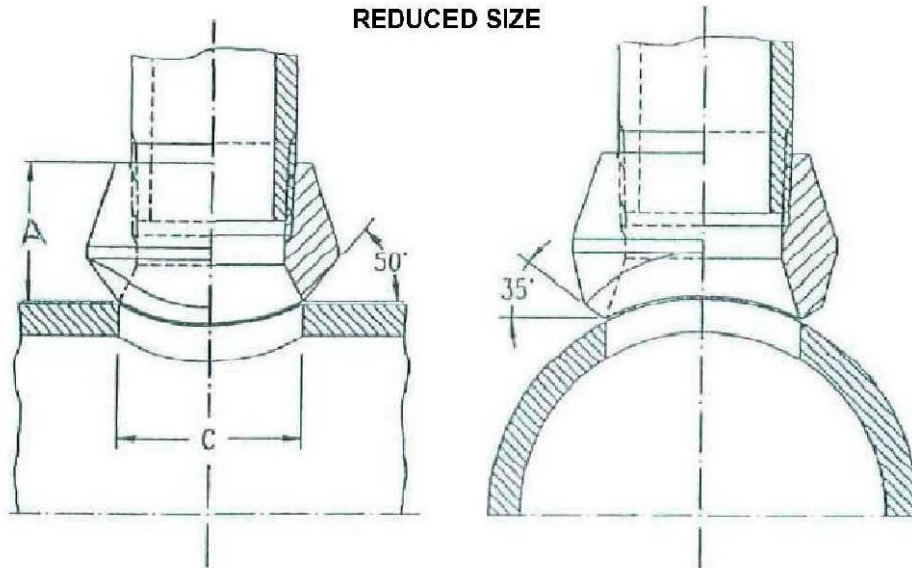
DIMENSIONS IN INCHES  
WEIGHTS: SEE APPENDIX PAGE 8

IN ACCORDANCE WITH ANSI-ASME 31.1  
ANSI-ASME 31.3 / MSS SP 97  
BUTT WELD PARTS: ANSI-ASME B 16.9



# STEEL FITTINGS FOR HIGH PRESSURE SERVICE

## THREADED REDUCED SIZE



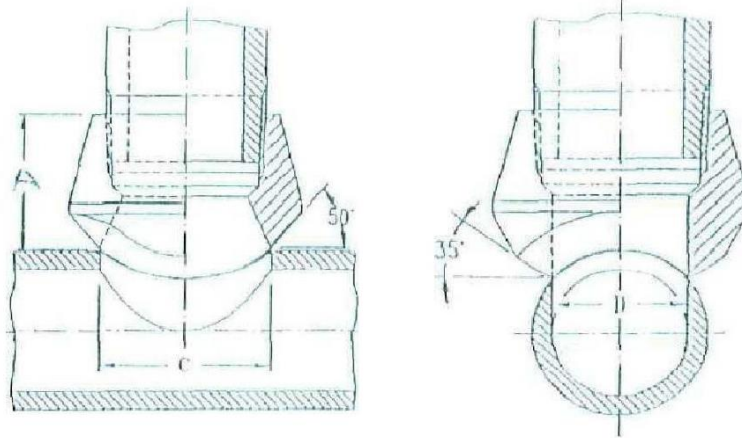
CLASS DESIGN.	BRANCH SIZE		1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	3.1/2"	4"
3000	A	MM	17.5	20.6	25.4	27	33.5	33.5	36	38.1	46	51	54	57
		INCH	0.69	0.81	1	1.06	1.32	1.32	1.42	1.5	1.81	2.01	2.13	2.24
	C	MM	15.8	19	23.8	30.1	36	44	51	65	76	93	101	120
		INCH	0.62	0.75	0.94	1.18	1.42	1.73	2.01	2.56	2.99	3.66	3.98	4.72
6000	A	MM			32	37	40	42	43	59				
		INCH			1.26	1.46	1.57	1.65	1.69	2.32				
	C	MM			19	25	33	38	49	58.5				
		INCH			0.75	0.98	1.3	1.5	1.93	2.3				

DIMENSIONS IN INCHES  
WEIGHTS: SEE APPENDIX PAGE 8

IN ACCORDANCE WITH ANSI-ASME 31.1  
ANSI-ASME 31.3 / MSS SP 97  
THREADS: ANSI-ASME B 1.20.1

# STEEL FITTINGS FOR HIGH PRESSURE SERVICE

## THREADED FULL SIZE

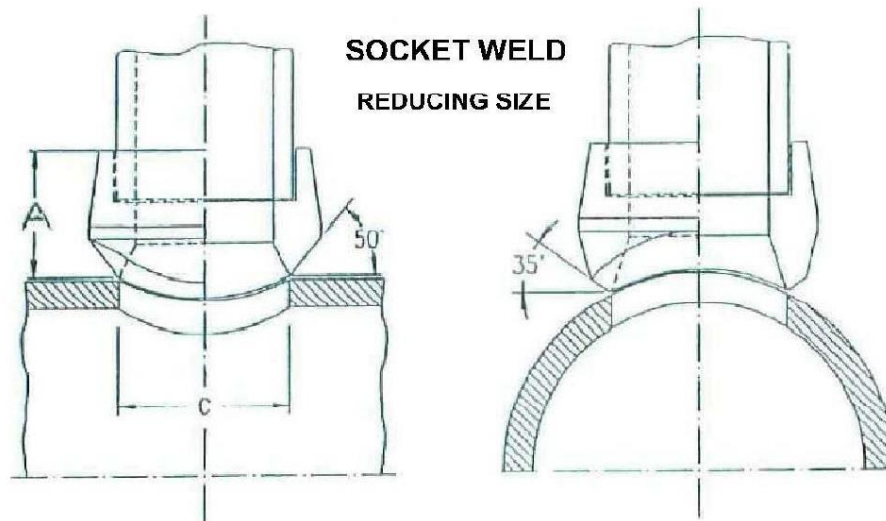


CLASS DESIGN.	BRANCH SIZE		1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	3.1/2"	4
3000	A	MM	25.4	27	33.3	33.3	35	38.1	46	50.8	54	57.1
		INCH	1	1.05	1.31	1.31	1.38	1.5	1.81	2	2.13	2.25
	C	MM	23.8	30	36.5	44.5	50.8	65	76.2	93.6	112.7	120.6
		INCH	0.94	1.18	1.44	1.75	2	2.56	3	3.68	4.44	4.75
	D	MM	15.8	20.6	27	35	41.3	52.4	63.5	77.8	90.5	103.2
		INCH	0.62	0.81	1.06	1.38	1.63	2.06	2.5	3.06	3.56	4.06

DIMENSIONS IN INCHES  
WEIGHTS:SEE APPENDIX PAGE 8

IN ACCORDANCE WITH **ANSI-ASME 31.1**  
**ANSI-ASME 31.3 / MSS SP 97**  
THREADS: ANSI-ASME B 1.20.1

# STEEL FITTINGS FOR HIGH PRESSURE SERVICE



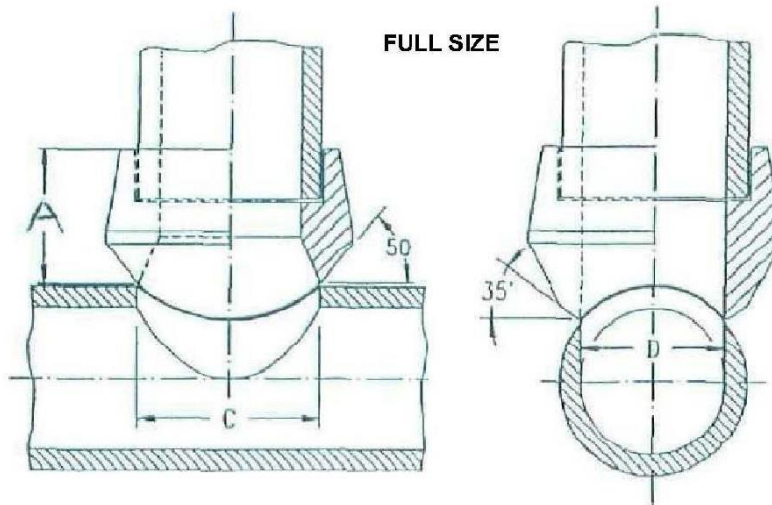
CLASS DESIGN.	BRANCH SIZE	BRANCH SIZE		1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	3.1/2"	4"
3000	STD	A	MM	17.5	20.5	25.4	27	33.5	33.5	36	38	46	51	54	57
			INCH	0.69	0.81	1	1.06	1.32	1.32	1.42	1.5	1.81	2.01	2.13	2.24
		C	MM	15.8	19	23.8	30	36.5	44.5	51	65	76	96	101	120
			INCH	0.62	0.75	0.94	1.18	1.44	1.75	2.01	2.56	2.99	3.66	3.98	4.72
6000	160	A	MM			32	36.5	40	42	43	59				
			INCH			1.26	1.44	1.57	1.65	1.69	2.32				
		C	MM			19	25	33	38	43	58.5				
			INCH			0.75	0.98	1.3	1.5	1.69	2.3				
9000	XXS	A	MM			38	44	45		58	59				
			INCH			1.5	1.73	1.77		2.28	2.32				
		C	MM			12	19	25		38	58				
			INCH			0.47	0.75	0.98		1.5	2.28				

DIMENSIONS IN INCHES  
WEIGHTS:SEE APPENDIX PAGE 8

IN ACCORDANCE WITH ANSI-ASME B 16.11  
ANSI-ASME B 31.1  
ANSI-ASME B 31.3 / MSS SP 97

# STEEL FITTINGS FOR HIGH PRESSURE SERVICE

## SOCKET WELD



BRANCH SCHEDULE	BRANCH SIZE		1/2"	3/4"	1	1.1/4"	1.1/2"	2"	2.1/2"	3"	3.1/2"	4
3000		MM	25.4	27	33.3	33.3	35	38.1	46	50.8	54	57.2
		INCH	1	1.06	1.31	1.31	1.38	1.5	1.81	2	2.13	2.25
		MM	23.8	30.1	36.5	44.5	50.8	65.1	76.2	93.7	101.6	120.6
		INCH	0.94	1.18	1.44	1.75	2	2.56	3	3.69	4	4.75
		MM	15.8	21	27	35	41.3	52.5	62.7	78	90.1	102.3
		INCH	0.62	0.83	1.06	1.38	1.63	2.07	2.47	3.07	3.56	4.03

DIMENSIONS IN INCHES  
WEIGHTS:SEE APPENDIX PAGE 8

IN ACCORDANCE WITH ANSI-ASME B 16.11  
ANSI-ASME B 31.1  
ANSI-ASME B 31.3 / MSS SP 97

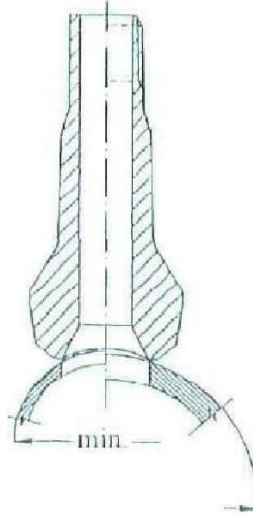
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# STEEL FITTINGS FOR HIGH PRESSURE SERVICE

## REINFORCING INSERT LONG - OUTLET

### DETERMINING OF OUTLET AND PIPELINE CONNECTIONS



TYPE		SCHEDULE / CLASS DESIGNATION				
BUTT WELD END		XS				
THREADED END		3000				
PLANE END		3000				
BRANCH SIZE	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
NOMINAL PIPE SIZE	1.1/2"÷6" 8"÷36" flat	1.1/2"÷3" 4"÷36" flat	1.1/2" 2"÷2.1/2" 3"÷5" 6"÷36" flat	2" 3"÷3.1/2" 4"÷5" 6"÷10" 12"÷36" flat	2" 3"÷3.1/2" 4"÷5" 6"÷12" 14"÷36" flat	3" 3.1/2"÷4" 5"÷6" 8"÷12" 14"÷36" flat

TYPE		SCHEDULE / CLASS DESIGNATION				
BUTT WELD END		160-XXS				
THREADED END		6000				
PLANE END		6000				
BRANCH SIZE	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
NOMINAL PIPE SIZE	1.1/2"÷36" flat	1.1/2"÷36" flat	1.1/2"÷4" 6"÷36" flat	2"÷4" 6"÷36" flat	2"÷4" 6"÷36" flat	3"÷4" 5"÷8" 10"÷36" flat

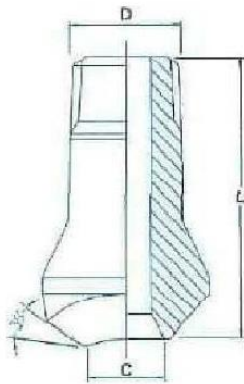
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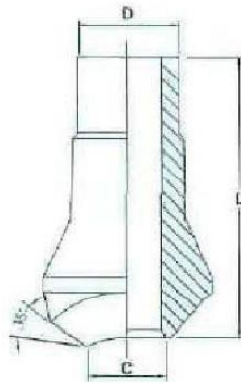
# STEEL FITTINGS FOR HIGH PRESSURE SERVICE

## REINFORCING INSERT LONG - OUTLET

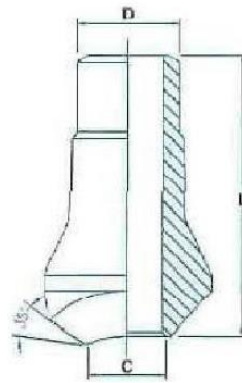
THREADED END



PLANE END



BUTT WELD



CLASS DESIGN.	BRANCH SIZE	BRANCH SIZE							
			1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	
3000	XS	D	MM	21.33	26.67	33.4		48.26	60.32
			INCH	0.84	1.05	1.31	1.66	1.9	2.37
		L	MM			89			
			INCH			3.5			
		C	MM	23.8	30	36.5	44.5	50.8	65
			INCH	0.94	1.18	1.44	1.75	2	2.56
6000	160	D	MM	21.33	26.67	33.4	42.16	48.26	60.32
			INCH	0.84	1.05	1.31	1.66	1.9	2.37
		L	MM			89			
			INCH			3.5			
		C	MM	14.2	19	25.4	33.3	38.1	42.8
			INCH	0.56	0.75	1	1.31	1.5	1.68

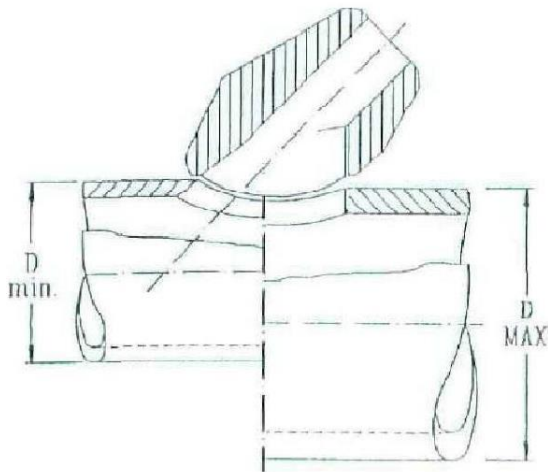
DIMENSIONS IN INCHES  
WEIGHTS:SEE APPENDIX PAGE 8

DIMENSIONS AND TOLLERANCES OF SIZE "S" ARE IN  
IN ACCORDANCE WITH ANSI-ASME B 36.10  
ANSI-ASME B 36.19  
ANSI-ASME B 31.1  
ANSI-ASME B 31.3

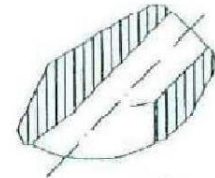
THREADS :ANSI-ASME B 1.20.1

# STEEL FITTINGS FOR HIGH PRESSURE SERVICE

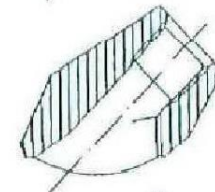
## LATERAL OUTLET REDUCING INSERT



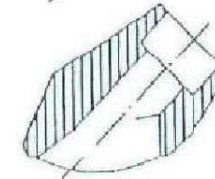
BUTT WELD



THREADED



SOCKET WELD



## REINFORCING INSERT LONG - OUTLET

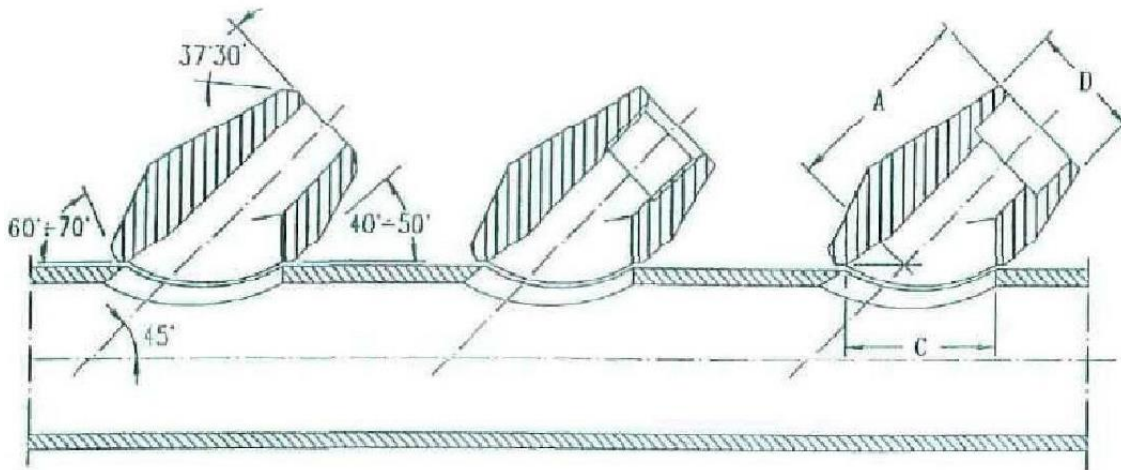
TYPE		SCHEDULE / CLASS DESIGNATION						
BUTT WELD		STD-XS						
THREADED		3000						
SOCKET WELD		3000						
BRANCH SIZE	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
NOMINAL PIPE SIZE	1.1/4"÷2.1/2" 3"÷12"	1.1/4"÷2.1/2" 3"÷12"	1.1/4"÷2.1/2" 3"÷12"	1.1/4"÷1.1/2" 2"÷5" 6"÷12"	2"÷2.1/2" 3"÷5" 6"÷12"	2"÷2.1/2" 3"÷5" 6"÷12"	2"÷2.1/2" 3"÷5" 6"÷12"	4"÷5" 6"÷8" 10"÷12"
TYPE		SCHEDULE / CLASS DESIGNATION						
BUTT WELD END		160-XXS						
THREADED END		6000						
PLANE END		6000						
BRANCH SIZE	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
NOMINAL PIPE SIZE	1.1/4"÷2.1/2" 3"÷12"	1.1/4"÷2.1/2" 3"÷12"	1.1/4"÷1.1/2" 2"÷5" 6"÷12"	2"÷2.1/2" 3"÷5" 6"÷12"	2"÷2.1/2" 3"÷5" 6"÷12"	2"÷2.1/2" 3"÷5" 6"÷12"	4"÷5" 6"÷8" 10"÷12"	

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# STEEL FITTINGS FOR HIGH PRESSURE SERVICE

## LATERAL OUTLET REDUCING INSERT



CLASS DESIGN.	NOMINAL SIZE		1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
3000	A	MM	39.7	39.7	41	47	56	67	67	81
		INCH	1.56	1.56	1.61	1.85	2.2	2.64	2.64	3.19
	C	MM	36.5	36.5	34	43	53	76	76	102
		INCH	1.44	1.44	1.34	1.69	2.09	2.99	2.99	4.01
	D	MM	31.8	31.8	31.8	35.7	45.2	57.1	63.5	82.6
		INCH	1.25	1.25	1.25	1.41	1.78	2.25	2.5	3.25
6000	A	MM	39.7	39.7	47	56	67	67	81	
		INCH	1.56	1.56	1.85	2.2	2.64	2.64	3.19	
	C	MM	36.5	36.5	43	53	76	76	102	
		INCH	1.44	1.44	1.69	2.09	2.99	2.99	4.02	
	D	MM	31.8	31.8	38.1	45.2	57.1	63.5	82.6	
		INCH	1.25	1.25	1.5	1.78	2.25	2.5	3.25	

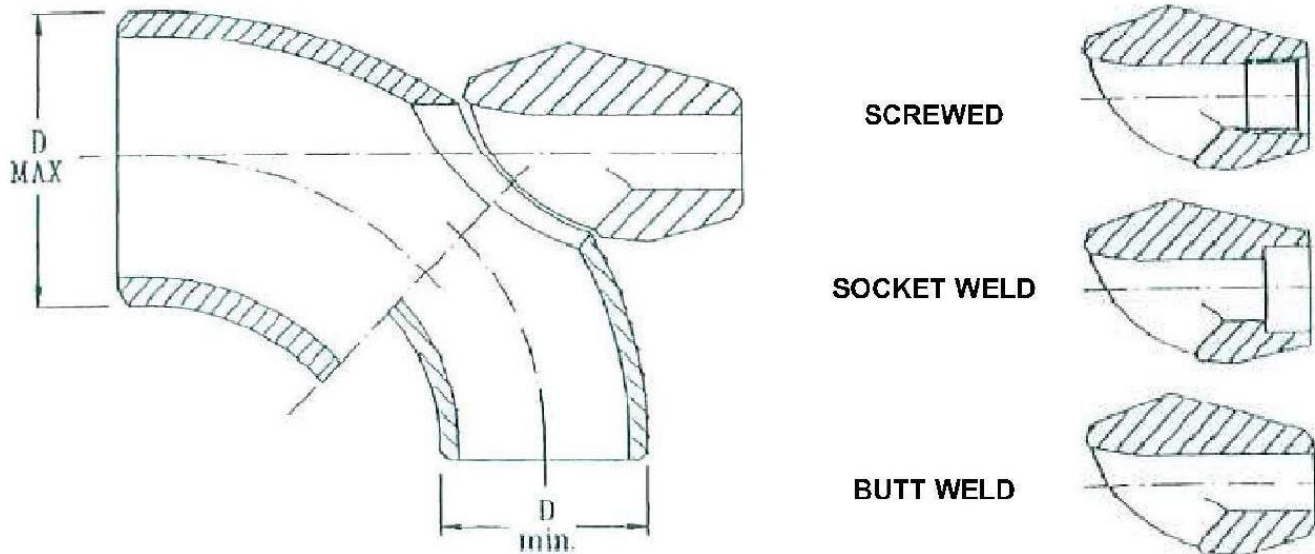
DIMENSIONS IN INCHES  
WEIGHTS:SEE APPENDIX PAGE 8

IN ACCORDANCE WITH ANSI-ASME B 16.11  
ANSI-ASME B 16.9  
ANSI-ASME B 31.1  
ANSI-ASME B 31.3  
THREADS :ANSI-ASME B 1.20.1



# STEEL FITTINGS FOR HIGH PRESSURE SERVICE

## 90° ELBOW OUTLET REDUCING INSERT



## DETERMINING OF OUTLET AND PIPELINE CONNECTIONS

TYPE		SCHEDULE /CLASS DESIGNATION						
BUTT WELD		STD-XS						
THREADED		3000						
SOCKET WELD		3000						
BRANCH SIZE	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
NOMINAL PIPE SIZE	1.1/4"+36"	1.1/4"+36"	1.1/4"+36"	1.1/4"+36"	2"+36"	2"+36"	2"-36"	2"+36"

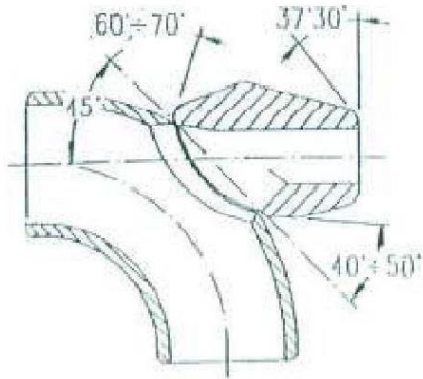
TYPE		SCHEDULE /CLASS DESIGNATION						
BUTT WELD		160 -XXS						
THREADED		6000						
SOCKET WELD		6000						
BRANCH SIZE	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
NOMINAL PIPE SIZE	1.1/4"+36"	1.1/4"+36"	1.1/4"+36"	2"+36"	2"+36"	2"+36"	3"+36"	

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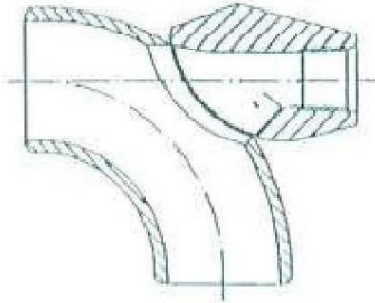


# STEEL FITTINGS FOR HIGH PRESSURE SERVICE

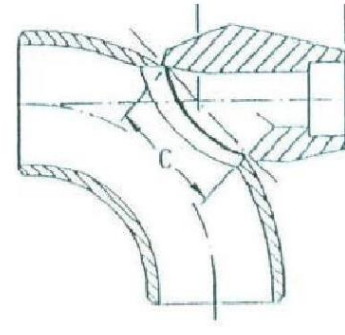
## ELBOW OUTLET REDUCING INSERT



BUTT WELD



SCREWED



SOCKET WELD

CLASS DESIGN.	NOMINAL SIZE		1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
3000	A	MM	38.1	38.41	47	56	67	67	81	
		INCH	1.5	1.5	1.61	1.85	2.2	2.63	2.63	3.18
	C	MM	38.1	38.1	34	43	53	76	76	102
		INCH	1.5	1.5	1.33	1.69	2.08	2.99	2.99	4.01
	D	MM	31.8	31.8	31.8	35.7	45.2	57.1	63.5	82.6
		INCH	1.25	1.25	1.25	1.4	1.78	2.24	2.5	3.25
6000	A	MM	38.1	38.1	47	56	67	67	81	
		INCH	1.5	1.5	1.85	2.2	2.64	2.64	3.19	
	C	MM	38.1	38.1	43	53	76	76	102	
		INCH	1.5	1.5	1.69	2.09	2.99	2.99	4.02	
	D	MM	31.8	31.8	38.1	45.2	57.1	63.5	82.6	
		INCH	1.25	1.25	1.5	1.78	2.25	2.5	3.25	

DIMENSIONS IN INCHES  
WEIGHTS:SEE APPENDIX PAGE 8

IN ACCORDANCE WITH ANSI-ASME B 16.11  
ANSI-ASME B 16.9  
ANSI-ASME B 31.1  
ANSI-ASME B 31.3  
ANSI-ASME B 16.25  
THREADS :ANSI-ASME B 1.20.1

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