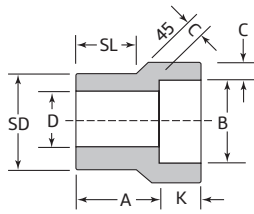
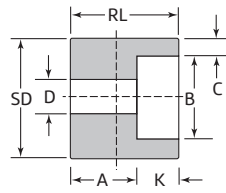


Fig. 2159 Type 1 – Reducer Insert

Fig. 2179 Type 2 – Reducer Insert



Type 1 – Reducer Insert
Fig. 2159



Type 2 – Reducer Insert
Fig. 2179

Class 6000

For use with Schedule 160 Pipe

Reducer inserts comply with MSS standard SP-79. They enable standard socket-weld fittings to be used for making any combination of pipe line reductions quickly and economically. Socket-weld reducer inserts serve SD D the same purpose as threaded reducing bushings with threaded fittings.

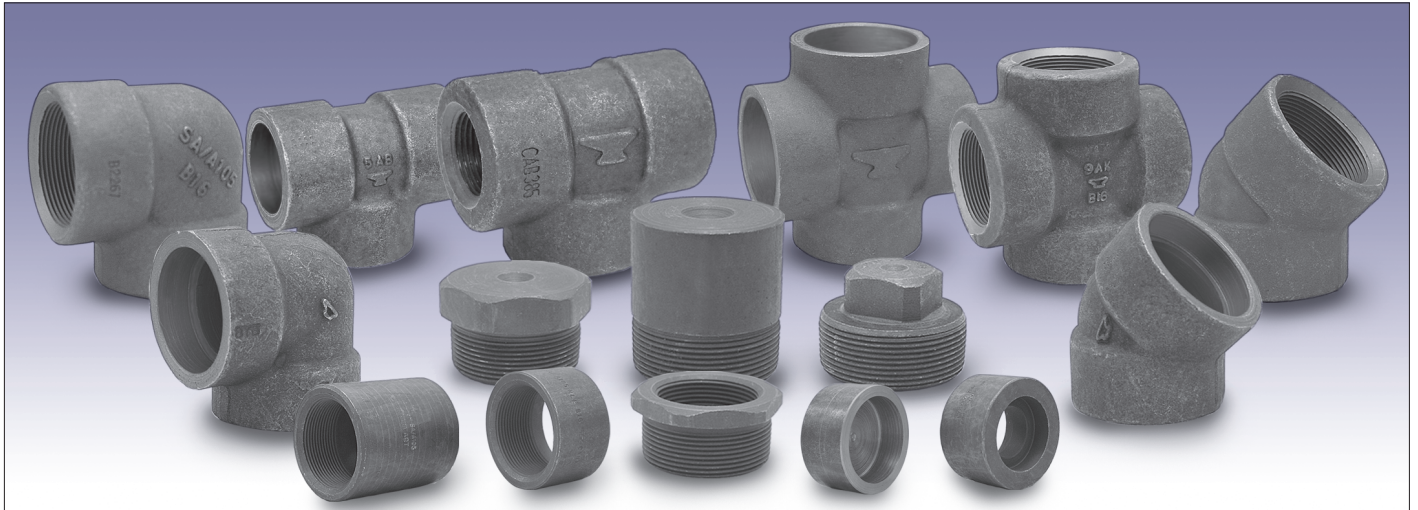
Size				Class 6000 – For use with Schedule 160 Pipe														
SD		B		Type	A		D	C Min.		K		SL		RL Min.		Unit Weight		
NPS	DN	NPS	DN		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg
		1/4	8	2	0.88	22.35	0.250	6.35	0.181	4.60	0.375	9.53	-	-	1.26	32		
3/4	20	3/8	10	1	0.88	22.35	0.359	9.12	0.198	5.00	0.438	11.11	0.75	19.05	-	-	0.81	0.37
		1/2	15	1	1.00	25.40	0.464	11.79	0.235	6.00	0.438	11.11	0.75	19.05	-	-		
		1/4	8	2	0.94	23.88	0.250	6.35	0.181	4.60	0.375	9.53	-	-	1.31	33		
		3/8	10	2	0.88	22.35	0.359	9.12	0.198	5.00	0.438	11.13	-	-	1.31	33	1.80	0.82
		1/2	15	1	1.12	28.45	0.464	11.79	0.235	6.00	0.438	11.11	0.81	20.57	-	-		
		3/4	20	1	1.12	28.45	0.612	15.49	0.274	6.96	0.563	14.29	0.81	20.57	-	-		
		1/4	8	2	1.00	25.40	0.250	6.35	0.181	4.60	0.375	9.53	-	-	1.37	35		
		3/8	10	2	0.94	23.88	0.359	9.12	0.198	5.00	0.438	11.11	-	-	1.37	35	2.00	0.91
1 1/4	32	1/2	15	2	0.88	22.35	0.464	11.79	0.235	6.00	0.438	11.13	-	-	1.37	35		
		3/4	20	2	0.81	20.57	0.612	15.49	0.274	6.96	0.563	14.29	-	-	1.37	35		
		1	25	1	1.19	30.23	0.815	20.70	0.312	7.92	0.563	14.29	0.88	22.35	-	-		
		3/8	10	2	1.12	28.45	0.359	9.12	0.198	5.00	0.438	11.11	-	-	1.56	40		
		1/2	15	2	1.06	26.92	0.464	11.79	0.235	6.00	0.438	11.13	-	-	1.56	40		
1 1/2	40	3/4	20	2	1.00	25.40	0.612	15.49	0.274	6.96	0.563	14.29	-	-	1.56	40	3.20	1.45
		1	25	1	1.15	29.21	0.815	20.70	0.312	7.92	0.563	14.29	1.00	25.40	-	-		
		1 1/4	32	1	1.38	35.05	1.160	29.46	0.312	7.92	0.563	14.29	1.00	25.40	-	-		
		1/2	15	2	1.12	28.45	0.464	11.79	0.235	6.00	0.438	11.13	-	-	1.62	41		
		3/4	20	2	1.06	26.92	0.612	15.49	0.274	6.96	0.562	14.3	-	-	1.62	41	5.40	2.45
2	50	1	25	2	1.00	25.40	0.815	20.70	0.312	7.92	0.562	14.3	-	-	1.62	41		
		1 1/4	32	2	0.94	23.88	1.160	29.46	0.312	7.92	0.562	14.3	-	-	1.62	41		

Note: The larger size NPS is the insert size.

To minimize the possibility of cracking of the fillet welds, it is recommended that the shank portion of the reducer be withdrawn approximately .0625 in. (1.6 mm) away from the contact with the bottom of the socket before starting the weld. Likewise, the pipe is to be kept away from contacting the bottom of the reducer socket before welding.

PROJECT INFORMATION	APPROVAL STAMP
Project:	Approved
Address:	Approved as noted
Contractor:	Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

Fig. 2159 Type 1 – Reducer Insert
Fig. 2179 Type 2 – Reducer Insert



Materials

The steel for Anvil Forged Carbon Steel Fittings consists of forging, bars, seamless pipe or tubes which conform to the requirements for melting process, chemical composition and mechanical properties of ASTM A105.

Design Basis

ASME B16.11 – Forged fittings, socket-weld and threaded

Dimensions

ASME B16.11, unless otherwise noted

Threads

ASME B1.20.1 NPT Threads

Forged Steel Fittings

In accordance with ASME standard B16.11 – “Forged Fittings, Socket-Welding and Threaded” this table shows the schedule of pipe corresponding to each class of fitting for rating purposes.

Class	Pressure Ratings	
	Schedule	
	N.P.T.	S.W.
2000	80	-
3000	160	80
6000	XXS/XXH	160

ASME B16.11 provides that the maximum allowable pressure of a fitting be computed in accordance with the applicable piping code or regulation for straight seamless pipe or for material of equivalent composition and mechanical properties to the fitting. Any corrosion or mechanical allowances and any reduction in allowable stress due to temperature or other service conditions must be applied to the pipe and fitting alike.

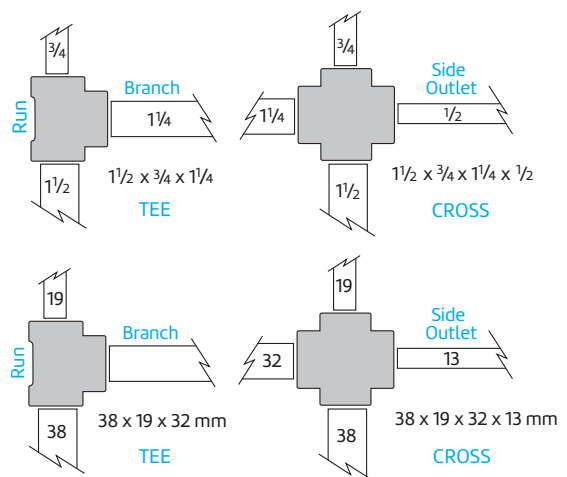
Standards and Specifications

	Dimensions	Material	Thread	Pressure Rating
Forged Steel Threaded Fittings				
Class 2000, 3000, 6000	ASME B16.11	ASTM A105, ASTM A182, ASTM A350	ASME B1.20.1	ASME B16.11

Reducing Fittings

Reducing elbows, tees and crosses are available in both threaded and socket-welding.

On reducing tees and crosses give the size of the largest run opening; then give the opposite opening. On a tee give the branch size last. On a cross give the largest side outlet third and the opposite opening last.



asc-es.com

Building connections that last™