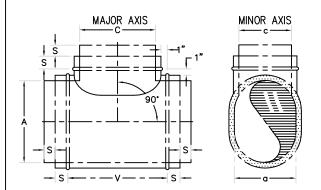


## FLAT OVAL FITTING STANDARDS DOUBLE WALL STRAIGHT TEES

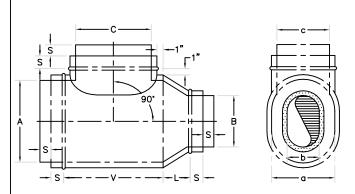
## STRAIGHT TEE DWOT1



#### DIMENSIONAL DATA:

- S=2"
- V=C+4"

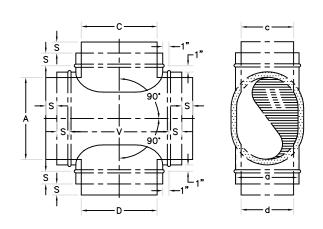
## REDUCING TEE DWOT1R



#### DIMENSIONAL DATA:

- S=2"
- V=C+4"
- L=12" IF GREATER OF (A-B) OR  $(a-b) \le 16$
- L=24" IF GREATER OF (A-B) OR (a-b) > 16

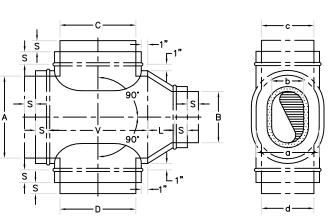
## STRAIGHT CROSS DWOT2



#### DIMENSIONAL DATA:

- S=2"
- V=LARGEST TAP+4"

## REDUCING CROSS DWOT2R

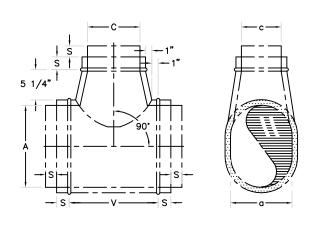


- S=2"
- V=LARGEST TAP+4"
- L=12" IF GREATER OF (A-B) OR (a-b)  $\leq$  16 L=24" IF GREATER OF (A-B) OR (a-b) > 16



### FLAT OVAL FITTING STANDARDS DOUBLE WALL CONICAL TEES

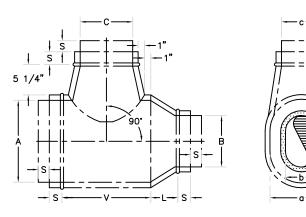
## CONICAL TEE DWOCT1



#### DIMENSIONAL DATA:

- S=2"
- V=C+6"

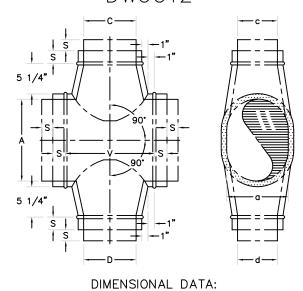
## REDUCING CONICAL TEE DWOCT1R



#### DIMENSIONAL DATA:

- S=2"
- V=C+6"
- L=12" IF GREATER OF (A-B) OR (a-b)  $\leq$  16 L=24" IF GREATER OF (A-B) OR (a-b) > 16

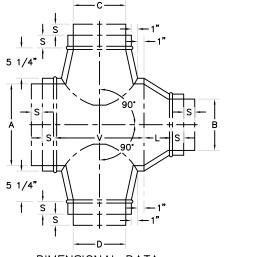
## CONICAL CROSS DWOCT2



V=LARGEST TAP+6"

• S=2"

## REDUCING CONICAL CROSS DWOCT2R

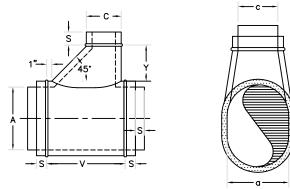


- S=2"
- V=LARGEST TAP+6"
- L=12" IF GREATER OF (A-B) OR (a-b)  $\leq$  16 L=24" IF GREATER OF (A-B) OR (a-b) > 16



### FITTING STANDARDS DOUBLE WALL COMBINATION TEES

## COMBINATION TEE DWOCMBT1

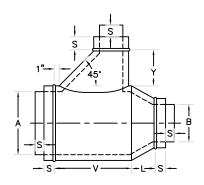


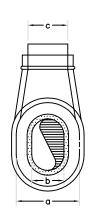
#### DIMENSIONAL DATA:

- S=2"
- V=(C+6)+2

- C= 3-16 Y=6" C= 17-24 Y=9" C= 25-UP Y=12"

## REDUCING COMBINATION TEE DWOCMBT1R



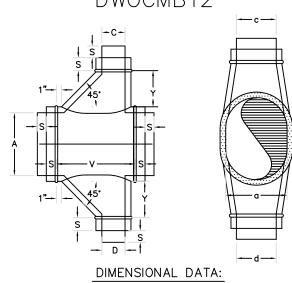


#### DIMENSIONAL DATA:

- S=2"
- V=(C+6)+2
- L=A-B (4" MIN.-12" MAX.)

- C= 3-16 Y=6" C= 17-24 Y=9" C= 25-UP Y=12"

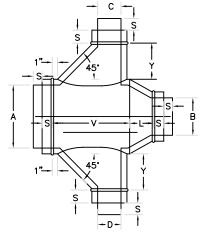
## COMBINATION CROSS DWOCMBT2

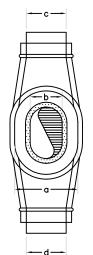


V=(LARGEST TAP+6)+2

C= 3-16 Y=6" C= 17-24 Y=9" C= 25-UP Y=12"

## REDUCING COMBINATION CROSS DWOCMBT2R



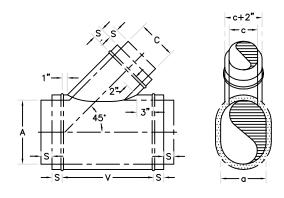


- S=2"
- V=(LARGEST TAP+6)+2
- L=A-B (4" MIN.-12" MAX.)
- Y=6" Y=9" C = 3 - 16
- C= 17-24 C= 25-UP



## FLAT OVAL FITTING STANDARDS DOUBLE WALL LATERALS

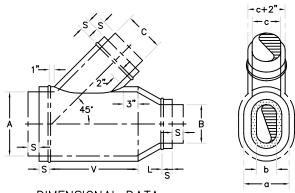
## LATERAL DWOL1



#### DIMENSIONAL DATA:

- V=(1.414x(C+2"))+4"

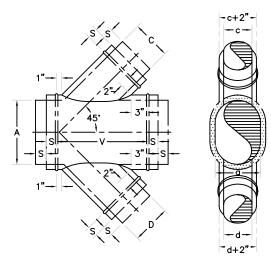
## REDUCING LATERAL DWOL1R



#### DIMENSIONAL DATA:

- V=(1.414x(C+2"))+4"
- L=12" IF GREATER OF (A−B) OR (a−b) ≤ 16 L=24" IF GREATER OF (A−B) OR (a−b) > 16

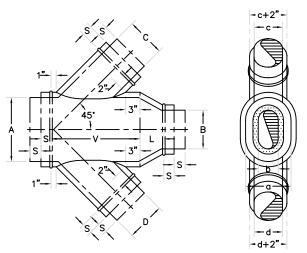
## LATERAL CROSS DWOL2



#### DIMENSIONAL DATA:

- V=(1.414x(C+2"))+4"

## REDUCING LATERAL CROSS DWOL2R

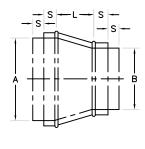


- S=2"
- V=(1.414x(C+2"))+4"
- L=12" IF GREATER OF (A-B) OR (a-b)  $\leq$  16 L=24" IF GREATER OF (A-B) OR (a-b) > 16



## FLAT OVAL FITTING STANDARDS DOUBLE WALL FITTINGS REDUCERS

## CONCENTRIC REDUCER DWOR1

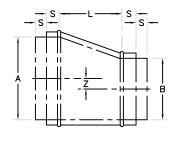




#### DIMENSIONAL DATA:

- S=2"
- L=12" IF GREATER OF (A-B) OR  $(a-b) \le 16$  L=24" IF GREATER OF (A-B) OR (a-b) > 16

## ECCENTRIC REDUCER DWOER1

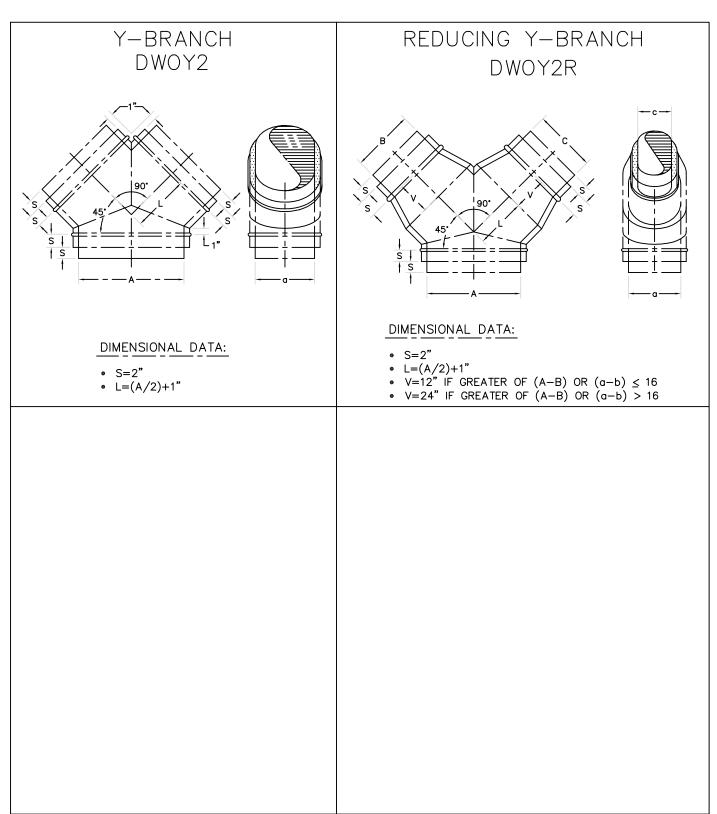




- S=2"
- Z=(A-B)/2
   L=12" IF GREATER OF (A-B) OR (a-b) ≤ 16
   L=24" IF GREATER OF (A-B) OR (a-b) > 16



# FLAT OVAL FITTING STANDARDS DOUBLE WALL FITTINGS Y-BRANCH

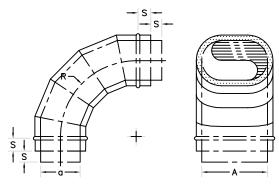




## FLAT OVAL FITTING STANDARDS DOUBLE WALL ELBOWS



DWOEB(ANGLE)

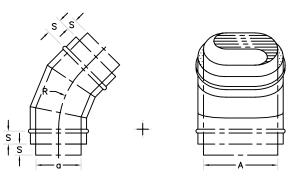


#### DIMENSIONAL DATA:

- S=2"
- R=1.5xa
- ANY ANGLE

0-35° - 2 PIECE 36-71° - 3 PIECE 72-90° - 5 PIECE

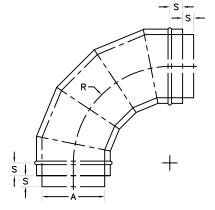
GORED ELBOW EASY BEND DWOEB45 HARD BEND AVAILABLE



#### **DIMENSIONAL DATA:**

- S=2"
- R=1.5xa

## GORED ELBOW HARD BEND DWOHB90 DWOHB45 DWOHB(ANGLE)

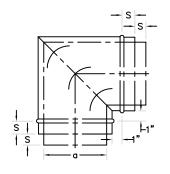


### DIMENSIONAL DATA:

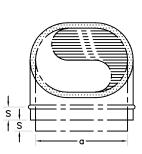
- S=2" R=1.5xA
- ANY ANGLE

0-35° - 2 PIECE 36-71° - 3 PIECE 72-90° - 5 PIECE

MITERED 90° DWOEBV90 EASY BEND HARD BEND AVAILABLE



- S=2"
- 90° TYPICAL
- 3" DIA. AND OVER



DIAMETER	NUMBER OF VANES
3"-9"	2
10"-14"	3
15"-19"	4
20"-60"	5
OVER 60"	12" SPACING

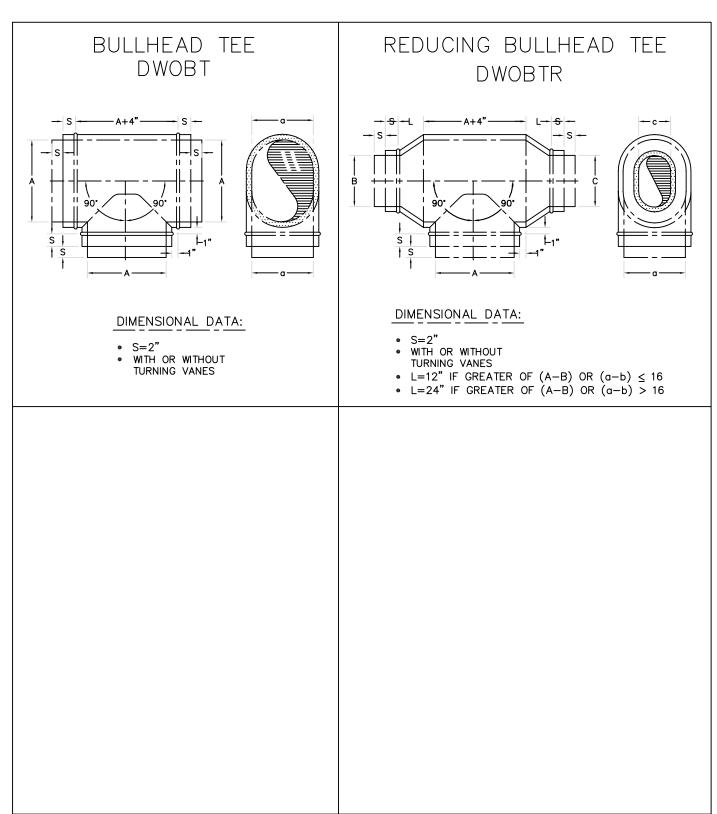


## FLAT OVAL FITTING STANDARDS MISC. DOUBLE WALL FITTINGS

# INSULATION END FLAT OVAL OFFSET DWODSA DWOHBSET EASY BEND AVAILABLE DIMENSIONAL DATA: DIMENSIONAL DATA: • S=2" • S=2"



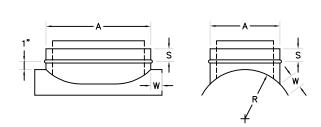
# FLAT OVAL FITTING STANDARDS DOUBLE WALL FITTINGS BULLHEAD TEE





## FLAT OVAL FITTING STANDARDS SADDLE TAPS

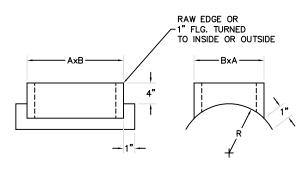
## STRAIGHT SADDLE TAP DWOTST



#### DIMENSIONAL DATA:

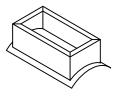
- S=2" W=2"
- R=1/2 DIAMETER

## GRILL BOX TAP **DWOGBST**

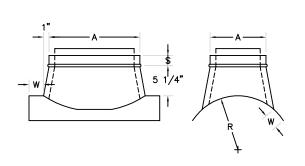


#### DIMENSIONAL DATA:

- C MUST BE LESS THAN 2A
- R= 1/2 DIAMETER



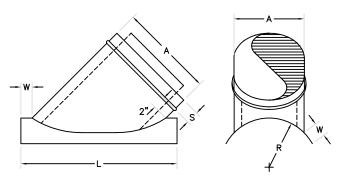
## CONICAL SADDLE TAP DWOCST



#### DIMENSIONAL DATA:

- S=2" W=2"
- R=1/2 DIAMETER

## LATERAL SADDLE TAP DWOLST

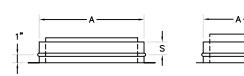


- S=2"
- L=(Bx1.414)+2W
- R=1/2 DIAMETER



## FLAT OVAL FITTING STANDARDS SADDLE TAPS ON FLAT

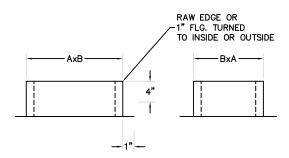
## STRAIGHT SADDLE TAP DWOTST ON FLAT



#### DIMENSIONAL DATA:

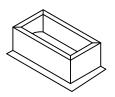
S=2"W=2 1/2""

## GRILL BOX TAP DWOGBST

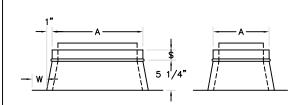


DIMENSIONAL DATA:

• C MUST BE LESS THAN 2A



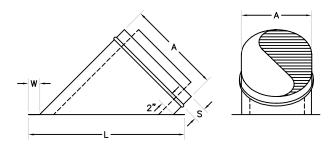
## CONICAL SADDLE TAP DWOCST



#### DIMENSIONAL DATA:

S=2"W=2 1/2"

## LATERAL SADDLE TAP DWOLST



#### DIMENSIONAL DATA:

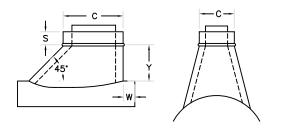
- S=2"
- L=(Bx1.414)+2W

HAMLIN 06/11/12



### FITTING STANDARDS MISC. COMBINATION TAPS

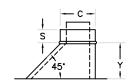
## COMBINATION SADDLE **DWOCMBST**

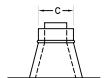


#### DIMENSIONAL DATA:

- S=2"
- V=(C+6)+2
- C= 3-16 Y=6" C= 17-24 Y=9" C= 25-UP Y=12"

## COMBINATION SADDLE DWOCMBST ON FLAT



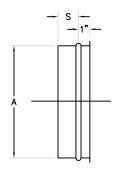


- S=2"
- V=(C+6)+2
- C= 3-16 Y=6"
  C= 17-24 Y=9"
  C= 25-UP Y=12"



## FITTING STANDARDS MISC. FITTINGS

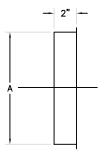
INSIDE PLUG DWEP



DIMENSIONAL DATA:

• S=2"

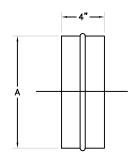
OUTSIDE CAP DWEC



PIPE COUPLING

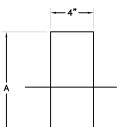
DWS1

(INSIDE COUPLING)



FITTING COUPLING DWS2

(OUTSIDE COUPLING)



HAMLIN 06/11/12

# Hamlin sheet metal

### OVAL DOUBLE WALL FITTINGS

#### **LEGEND**

OAR - ANGLE RING
OBM - BELLMOUTH
OCMB - COMBINATION
OR - REDUCER
OS - COUPLING
OSET - OFFSET

OT2 - CROSS
OC - CONICAL
OT5 - SADDLE TAP
OE - ELBOW
ODSA - SPUN INSULATION END
OT - TEE
OL-LATERAL
OEC - END CAP

OF-FLAT SADDLE

#### DIMENSIONING CODE

A -Size of main inlet major axis, a-minor axis

B - Size of main outlet, if reducing major axis, b-monor asis

C.D - Size of take off taps major asix, c, d-monor axis

P - Angle Between Cross Tap Centerlines

R -Radius

S -Length of Male End of Fittings

Z -Offset Height

EB - Easy bend for vertical elbows

HB - Hard bend for horizontal elbows

#### **ORDERING**

Specify type of fittings and list the following diemensions:

ELBOWS - A, a, B, b

TEES - A, a, B, b, C, c, D, d LATERALS - A, a, B, b, C, c, D, d CROSSES - A, a, B, b, C, c, D, d

ACCESSORIES - As Noted

The drawings shown are illustrative of the types fabricated.

All fittings, unless noted, are fabricated as a male part on each end for slip-joint assembly with spiral pipe.

Van Stone angle ring, Solid welded flange, Accuflange or Ovalmate flanges are available on special order.