

# TOP LINE

## Biopharm Fittings



Stainless Steel  
Flow Control  
Equipment for the  
Food and Beverage,  
Dairy, Cosmetics,  
Biotechnology,  
Pharmaceutical and  
Electronics Processing  
Industries

# Biopharm Fittings



Top Line precision crafted automatic weld fittings provide reliable components which are designed for today's high speed automatic welding equipment. Automatic weld fittings are provided with sanitary finishes that meet or exceed pharmaceutical process specifications. Top Line fittings are manufactured to dimensional specifications per ASME BPE.

## Long Tangent Fittings Specifications

Size Range: 1/2" OD through 6" OD

Materials: 316L (Stock No. Prefix 40) for Weld Connections  
316L (Stock No. Prefix 48) for Clamp Connections

Finish: No. 3 - 20 RA Mechanical ID only  
No. 3 EP - 15 RA Mechanical and Electropolish ID only  
No. 7 - 20 RA Mechanical ID 150 Grit Mechanical OD  
No. 7 EP - 15 RA Mechanical and Electropolish ID 150 Grit Mechanical OD  
No. 1 - unpolished  
10 RA ID available

## Ordering Specifications

Specify:

- Quantity
- Size
- Product Description
- Stock Number
- Polish Requirements

## Example

Quantity	Size	Product Description	Stock Number	Material Type	Polish
3 Each	2"	TL2S-90°	#40720-3	Type 316L	No. 3

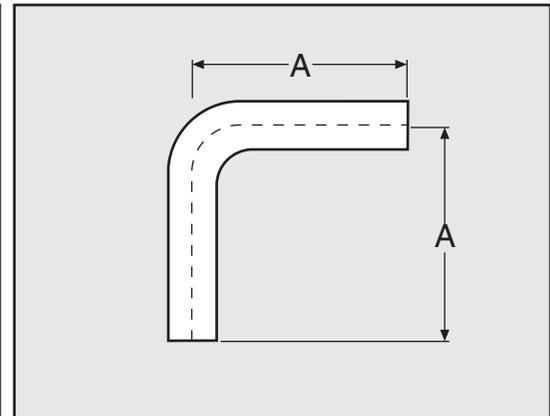
**ELBOWS**

**LONG TANGENT FITTINGS**



**TL2S - 90° ELL**

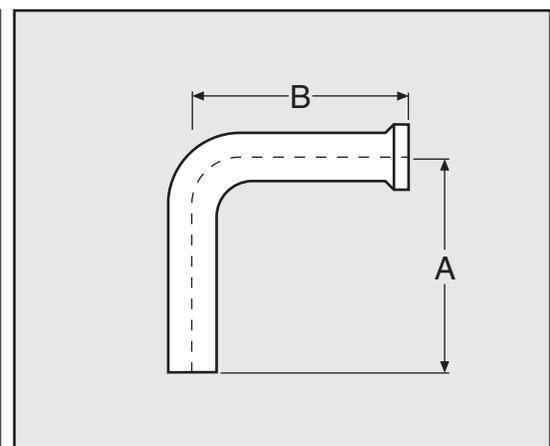
SIZE (TUBE O.D.)	A	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
1/2	3	40705 - 3	40705 - 3EP
3/4	3	40707 - 3	40707 - 3EP
1	3	40710 - 3	40710 - 3EP
1-1/2	3-3/4	40715 - 3	40715 - 3EP
2	4-3/4	40720 - 3	40720 - 3EP
2-1/2	5-1/2	40725 - 3	40725 - 3EP
3	6-1/4	40730 - 3	40730 - 3EP
4	8	40740 - 3	40740 - 3EP
6	11-1/2	40760 - 3	40760 - 3EP



**TL2CM - 90° ELL\***

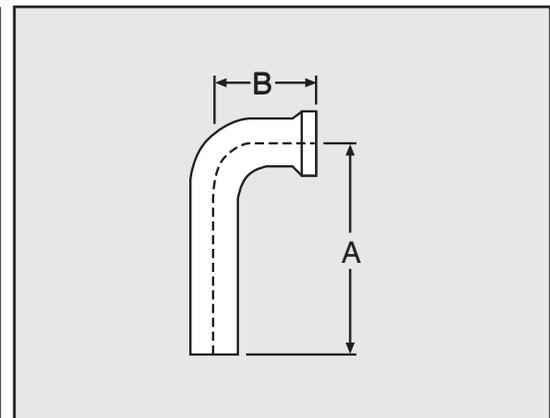
SIZE (TUBE O.D.)	A	B	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
1/2	3	3-1/2	407M05 - 3	407M05 - 3EP
3/4	3	3-1/2	407M07 - 3	407M07 - 3EP
1	3	3-1/2	407M10 - 3	407M10 - 3EP
1-1/2	3-3/4	4-1/4	407M15 - 3	407M15 - 3EP
2	4-3/4	5-1/4	407M20 - 3	407M20 - 3EP
2-1/2	5-1/2	6	407M25 - 3	407M25 - 3EP
3	6-1/4	6-3/4	407M30 - 3	407M30 - 3EP
4	8	8-5/8	407M40 - 3	407M40 - 3EP
6	11-1/2	12-1/4	407M60 - 3	407M60 - 3EP

\* Not to BPE Dims.



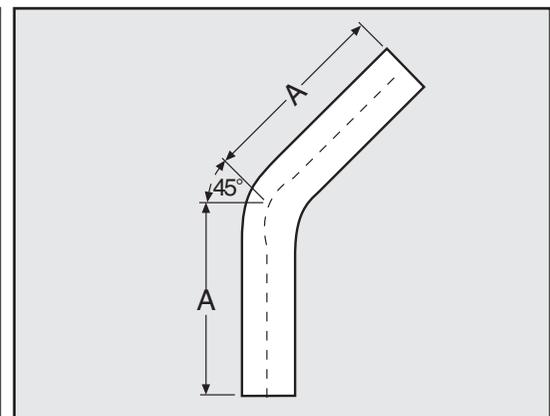
**TL2CMS - 90° ELL**

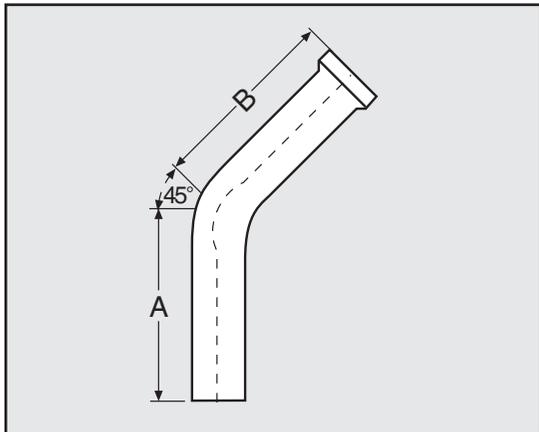
SIZE (TUBE O.D.)	A	B	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
1/2	3	1-5/8	407MS05 - 3	407MS05 - 3EP
3/4	3	1-5/8	407MS07 - 3	407MS07 - 3EP
1	3	2	407MS10 - 3	407MS10 - 3EP
1-1/2	3-3/4	2-3/4	407MS15 - 3	407MS15 - 3EP
2	4-3/4	3-1/2	407MS20 - 3	407MS20 - 3EP
2-1/2	5-1/2	4-1/4	407MS25 - 3	407MS25 - 3EP
3	6-1/4	5	407MS30 - 3	407MS30 - 3EP
4	8	6-5/8	407MS40 - 3	407MS40 - 3EP
6	11-1/2	10-1/2	407MS60 - 3	407MS60 - 3EP



**TL2KS - 45° ELL**

SIZE (TUBE O.D.)	A	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
1/2	2-1/4	40805 - 3	40805 - 3EP
3/4	2-1/4	40807 - 3	40807 - 3EP
1	2-1/4	40810 - 3	40810 - 3EP
1-1/2	2-1/2	40815 - 3	40815 - 3EP
2	3	40820 - 3	40820 - 3EP
2-1/2	3-3/8	40825 - 3	40825 - 3EP
3	3-5/8	40830 - 3	40830 - 3EP
4	4-1/2	40840 - 3	40840 - 3EP
6	6-1/4	40860 - 3	40860 - 3EP

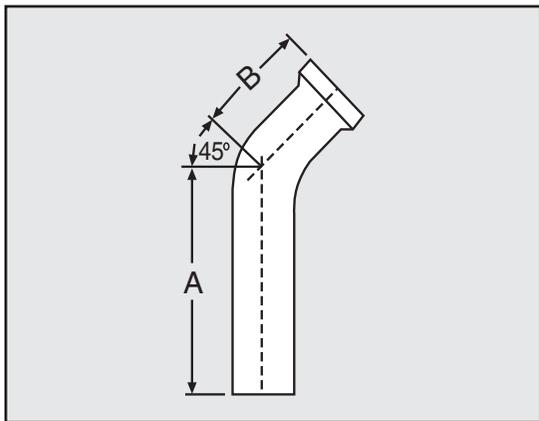




**TL2KM - 45° ELL\***

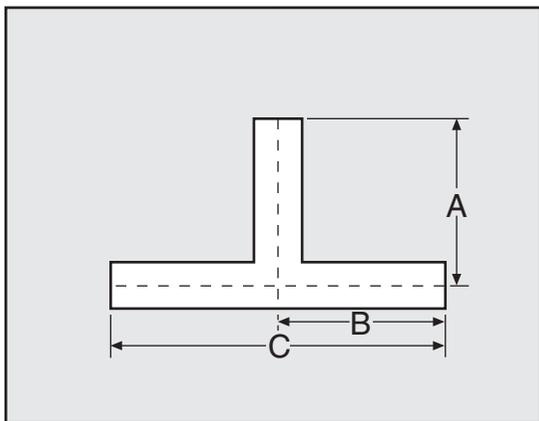
SIZE (TUBE O.D.)	A	B	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
1/2	2-1/4	2-3/4	408M05 - 3	408M05 - 3EP
3/4	2-1/4	2-3/4	408M07 - 3	408M07 - 3EP
1	2-1/4	2-3/4	408M10 - 3	408M10 - 3EP
1-1/2	2-1/2	3	408M15 - 3	408M15 - 3EP
2	3	3-1/2	408M20 - 3	408M20 - 3EP
2-1/2	3-3/8	3-7/8	408M25 - 3	408M25 - 3EP
3	3-5/8	4-1/8	408M30 - 3	408M30 - 3EP
4	4-1/2	5-1/8	408M40 - 3	408M40 - 3EP
6	6-1/4	7	408M60 - 3	408M60 - 3EP

\* Not to BPE Dims.



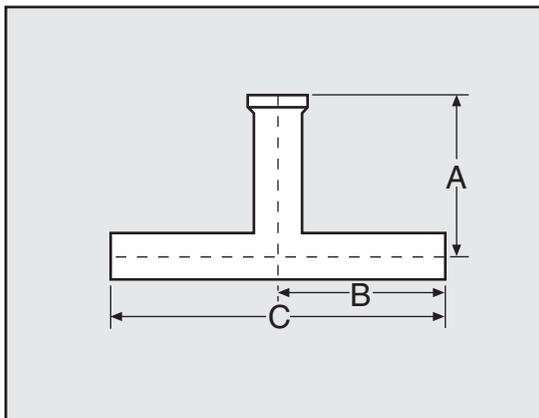
**TL2KMS - 45° ELL**

SIZE (TUBE O.D.)	A	B	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
1/2	2-1/4	1	408MS05 - 3	408MS05 - 3EP
3/4	2-1/4	1	408MS07 - 3	408MS07 - 3EP
1	2-1/4	1-1/8	408MS10 - 3	408MS10 - 3EP
1-1/2	2-1/2	1-7/16	408MS15 - 3	408MS15 - 3EP
2	3	1-3/4	408MS20 - 3	408MS20 - 3EP
2-1/2	3-3/8	2-1/16	408MS25 - 3	408MS25 - 3EP
3	3-5/8	2-3/8	408MS30 - 3	408MS30 - 3EP
4	4-1/2	3-1/8	408MS40 - 3	408MS40 - 3EP
6	6-1/4	5-1/4	408MS60 - 3	408MS60 - 3EP



**TL7WWW TEE**

SIZE (TUBE O.D.)	A	B	C	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
1/2	1-7/8	1-7/8	3-3/4	401105 - 3	401105 - 3EP
3/4	2	2	4	401107 - 3	401107 - 3EP
1	2-1/8	2-3/8	4-3/4	401110 - 3	401110 - 3EP
1-1/2	2-3/8	2-3/8	4-3/4	401115 - 3	401115 - 3EP
2	2-7/8	2-7/8	5-3/4	401120 - 3	401120 - 3EP
2-1/2	3-1/8	3-1/8	6-1/4	401125 - 3	401125 - 3EP
3	3-3/8	3-3/8	6-3/4	401130 - 3	401130 - 3EP
4	4-1/8	4-1/8	8-1/4	401140 - 3	401140 - 3EP
6	5-5/8	5-5/8	11-1/4	401160 - 3	401160 - 3EP



**TL7WWM TEE**

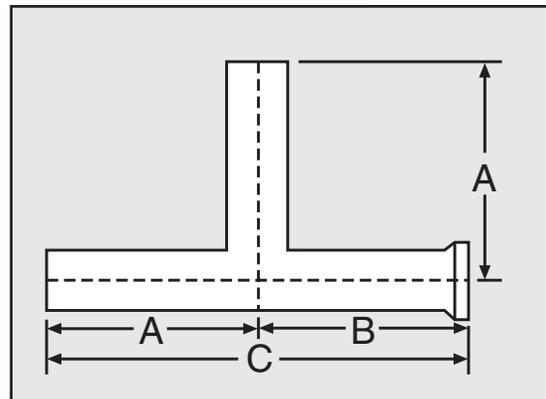
SIZE (TUBE O.D.)	A	B	C	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
1/2	2-3/8	1-7/8	3-3/4	4011MB05 - 3	4011MB05 - 3EP
3/4	2-1/2	2	4	4011MB07 - 3	4011MB07 - 3EP
1	2-5/8	2-1/8	4-1/4	4011MB10 - 3	4011MB10 - 3EP
1-1/2	2-7/8	2-3/8	4-3/4	4011MB15 - 3	4011MB15 - 3EP
2	3-3/8	2-7/8	5-3/4	4011MB20 - 3	4011MB20 - 3EP
2-1/2	3-5/8	3-1/8	6-1/4	4011MB25 - 3	4011MB25 - 3EP
3	3-7/8	3-3/8	6-3/4	4011MB30 - 3	4011MB30 - 3EP
4	4-3/4	4-1/8	8-1/4	4011MB40 - 3	4011MB40 - 3EP
6	6-3/8	5-5/8	11-1/4	4011MB60 - 3	4011MB60 - 3EP

**TEES**

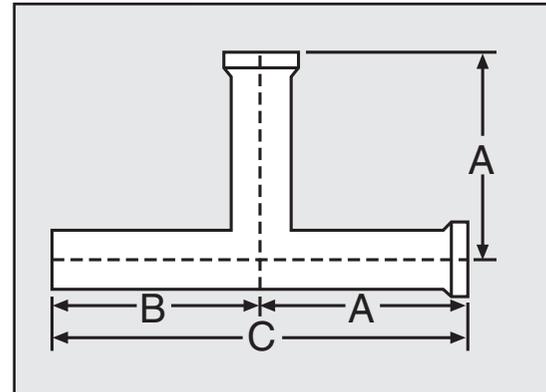
**LONG TANGENT FITTINGS**



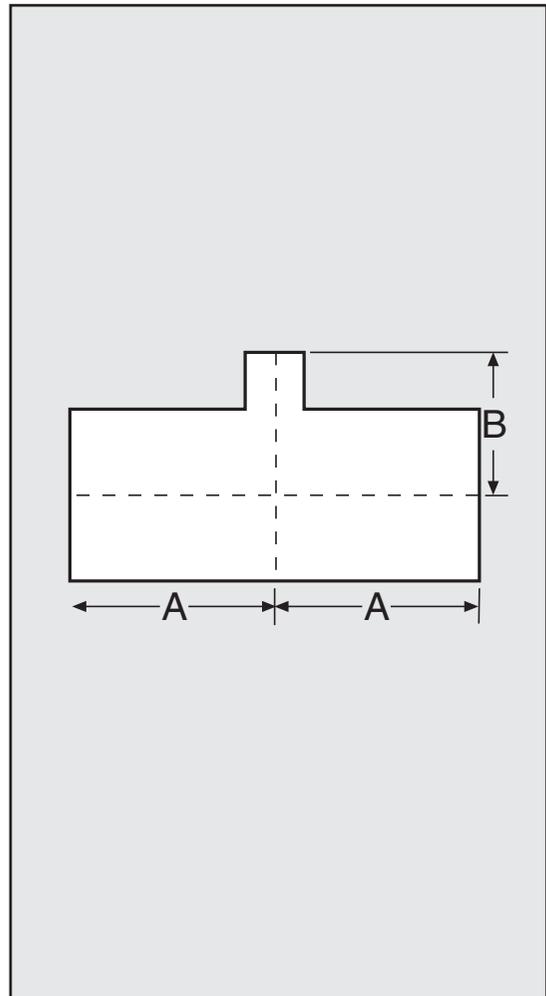
TL7WMW TEE					
SIZE (TUBE O.D.)	A	B	C	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
1/2	1-7/8	2-3/8	4-1/4	4011M05 - 3	4011M05 - 3EP
3/4	2	2-1/2	4-1/2	4011M07 - 3	4011M07 - 3EP
1	2-1/8	2-5/8	4-3/4	4011M10 - 3	4011M10 - 3EP
1-1/2	2-3/8	2-7/8	5-1/4	4011M15 - 3	4011M15 - 3EP
2	2-7/8	3-3/8	6-1/4	4011M20 - 3	4011M20 - 3EP
2-1/2	3-1/8	3-5/8	6-3/4	4011M25 - 3	4011M25 - 3EP
3	3-3/8	3-7/8	7-1/4	4011M30 - 3	4011M30 - 3EP
4	4-1/8	4-3/4	8-7/8	4011M40 - 3	4011M40 - 3EP
6	5-5/8	6-3/8	12	4011M60 - 3	4011M60 - 3EP

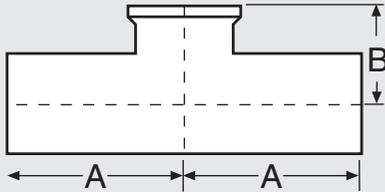


TL7WMM TEE					
SIZE (TUBE O.D.)	A	B	C	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
1/2	2-3/8	1-7/8	4-1/4	4011MMB05 - 3	4011MMB05 - 3EP
3/4	2-1/2	2	4-1/2	4011MMB07 - 3	4011MMB07 - 3EP
1	2-5/8	2-1/8	4-3/4	4011MMB10 - 3	4011MMB10 - 3EP
1-1/2	2-7/8	2-3/8	5-1/4	4011MMB15 - 3	4011MMB15 - 3EP
2	3-3/8	2-7/8	6-1/4	4011MMB20 - 3	4011MMB20 - 3EP
2-1/2	3-5/8	3-1/8	6-3/4	4011MMB25 - 3	4011MMB25 - 3EP
3	3-7/8	3-3/8	7-1/4	4011MMB30 - 3	4011MMB30 - 3EP
4	4-3/4	4-1/8	8-7/8	4011MMB40 - 3	4011MMB40 - 3EP
6	6-3/8	5-5/8	12	4011MMB60 - 3	4011MMB60 - 3EP



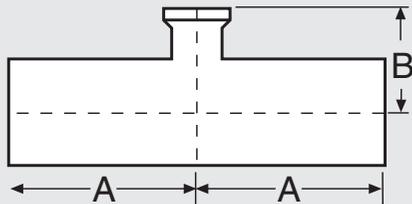
TL7RWW REDUCING TEE				
SIZE	A	B	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
3/4 X 1/2	2	2	401107R05 - 3	401107R05 - 3EP
1 X 1/2	2-1/8	2-1/8	401110R05 - 3	401110R05 - 3EP
1 X 3/4	2-1/8	2-1/8	401110R07 - 3	401110R07 - 3EP
1-1/2 X 1/2	2-3/8	2-3/8	401115R05 - 3	401115R05 - 3EP
1-1/2 X 3/4	2-3/8	2-3/8	401115R07 - 3	401115R07 - 3EP
1-1/2 X 1	2-3/8	2-3/8	401115R10 - 3	401115R10 - 3EP
2 X 1/2	2-7/8	2-5/8	401120R05 - 3	401120R05 - 3EP
2 X 3/4	2-7/8	2-5/8	401120R07 - 3	401120R07 - 3EP
2 X 1	2-7/8	2-5/8	401120R10 - 3	401120R10 - 3EP
2 X 1-1/2	2-7/8	2-5/8	401120R15 - 3	401120R15 - 3EP
2-1/2 X 1/2	3-1/8	2-7/8	401125R05 - 3	401125R05 - 3EP
2-1/2 X 3/4	3-1/8	2-7/8	401125R07 - 3	401125R07 - 3EP
2-1/2 X 1	3-1/8	2-7/8	401125R10 - 3	401125R10 - 3EP
2-1/2 X 1-1/2	3-1/8	2-7/8	401125R15 - 3	401125R15 - 3EP
2-1/2 X 2	3-1/8	2-7/8	401125R20 - 3	401125R20 - 3EP
3 X 1/2	3-3/8	3-1/8	401130R05 - 3	401130R05 - 3EP
3 X 3/4	3-3/8	3-1/8	401130R07 - 3	401130R07 - 3EP
3 X 1	3-3/8	3-1/8	401130R10 - 3	401130R10 - 3EP
3 X 1-1/2	3-3/8	3-1/8	401130R15 - 3	401130R15 - 3EP
3 X 2	3-3/8	3-1/8	401130R20 - 3	401130R20 - 3EP
3 X 2-1/2	3-3/8	3-1/8	401130R25 - 3	401130R25 - 3EP
4 X 1/2	4-1/8	3-5/8	401140R05 - 3	401140R05 - 3EP
4 X 3/4	4-1/8	3-5/8	401140R07 - 3	401140R07 - 3EP
4 X 1	4-1/8	3-5/8	401140R10 - 3	401140R10 - 3EP
4 X 1-1/2	4-1/8	3-5/8	401140R15 - 3	401140R15 - 3EP
4 X 2	4-1/8	3-7/8	401140R20 - 3	401140R20 - 3EP
4 X 2-1/2	4-1/8	3-7/8	401140R25 - 3	401140R25 - 3EP
4 X 3	4-1/8	3-7/8	401140R30 - 3	401140R30 - 3EP
6 X 4	5-5/8	5-1/4	401160R40 - 3	401160R40 - 3EP





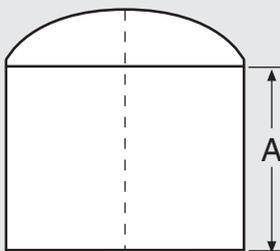
**TL7WWMS SHORT OUTLET TEE**

SIZE (TUBE O.D.)	A	B	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
1/2	1-7/8	1	401105S - 3	401105S - 3EP
3/4	2	1-1/8	401107S - 3	401107S - 3EP
1	2-1/8	1-1/8	401110S - 3	401110S - 3EP
1-1/2	2-3/8	1-3/8	401115S - 3	401115S - 3EP
2	2-7/8	1-5/8	401120S - 3	401120S - 3EP
2-1/2	3-1/8	1-7/8	401125S - 3	401125S - 3EP
3	3-3/8	2-1/8	401130S - 3	401130S - 3EP
4	4-1/8	2-3/4	401140S - 3	401140S - 3EP
6	5-5/8	4-5/8	401160S - 3	401160S - 3EP



**TL7RWWMS REDUCING SHORT OUTLET TEE**

SIZE	A	B	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
3/4 X 1/2	2	1	401107RS05 - 3	401107RS05 - 3EP
1 X 1/2	2-1/8	1-1/8	401110RS05 - 3	401110RS05 - 3EP
1 X 3/4	2-1/8	1-1/8	401110RS07 - 3	401110RS07 - 3EP
1-1/2 X 1/2	2-3/8	1-3/8	401115RS05 - 3	401115RS05 - 3EP
1-1/2 X 3/4	2-3/8	1-3/8	401115RS07 - 3	401115RS07 - 3EP
1-1/2 X 1	2-3/8	1-3/8	401115RS10 - 3	401115RS10 - 3EP
2 X 1/2	2-7/8	1-5/8	401120RS05 - 3	401120RS05 - 3EP
2 X 3/4	2-7/8	1-5/8	401120RS07 - 3	401120RS07 - 3EP
2 X 1	2-7/8	1-5/8	401120RS10 - 3	401120RS10 - 3EP
2 X 1-1/2	2-7/8	1-5/8	401120RS15 - 3	401120RS15 - 3EP
2-1/2 X 1/2	3-1/8	1-7/8	401125RS05 - 3	401125RS05 - 3EP
2-1/2 X 3/4	3-1/8	1-7/8	401125RS07 - 3	401125RS07 - 3EP
2-1/2 X 1	3-1/8	1-7/8	401125RS10 - 3	401125RS10 - 3EP
2-1/2 X 1-1/2	3-1/8	1-7/8	401125RS15 - 3	401125RS15 - 3EP
2-1/2 X 2	3-1/8	1-7/8	401125RS20 - 3	401125RS20 - 3EP
3 X 1/2	3-3/8	2-1/8	401130RS05 - 3	401130RS05 - 3EP
3 X 3/4	3-3/8	2-1/8	401130RS07 - 3	401130RS07 - 3EP
3 X 1	3-3/8	2-1/8	401130RS10 - 3	401130RS10 - 3EP
3 X 1-1/2	3-3/8	2-1/8	401130RS15 - 3	401130RS15 - 3EP
3 X 2	3-3/8	2-1/8	401130RS20 - 3	401130RS20 - 3EP
3 X 2-1/2	3-3/8	2-1/8	401130RS25 - 3	401130RS25 - 3EP
4 X 1/2	4-1/8	2-5/8	401140RS05 - 3	401140RS05 - 3EP
4 X 3/4	4-1/8	2-5/8	401140RS07 - 3	401140RS07 - 3EP
4 X 1	4-1/8	2-5/8	401140RS10 - 3	401140RS10 - 3EP
4 X 1-1/2	4-1/8	2-5/8	401140RS15 - 3	401140RS15 - 3EP
4 X 2	4-1/8	2-5/8	401140RS20 - 3	401140RS20 - 3EP
4 X 2-1/2	4-1/8	2-5/8	401140RS25 - 3	401140RS25 - 3EP
4 X 3	4-1/8	2-5/8	401140RS30 - 3	401140RS30 - 3EP
6 X 4	5-5/8	3-3/4	401160RS40 - 3	401160RS40 - 3EP

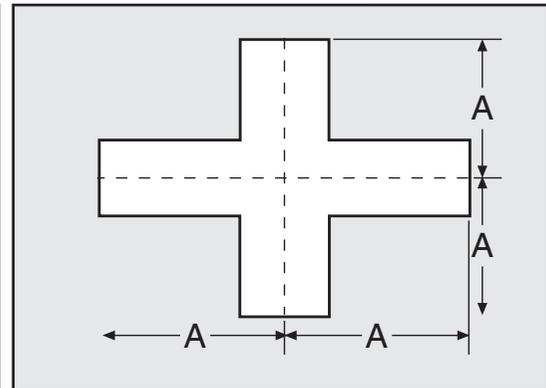


**TL16W CAP**

SIZE (TUBE O.D.)	A	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
1/2	1-1/2	4031605 - 3	4031605 - 3EP
3/4	1-1/2	4031607 - 3	4031607 - 3EP
1	1-1/2	4031610 - 3	4031610 - 3EP
1-1/2	1-1/2	4031615 - 3	4031615 - 3EP
2	1-1/2	4031620 - 3	4031620 - 3EP
2-1/2	1-1/2	4031625 - 3	4031625 - 3EP
3	1-3/4	4031630 - 3	4031630 - 3EP
4	2	4031640 - 3	4031640 - 3EP

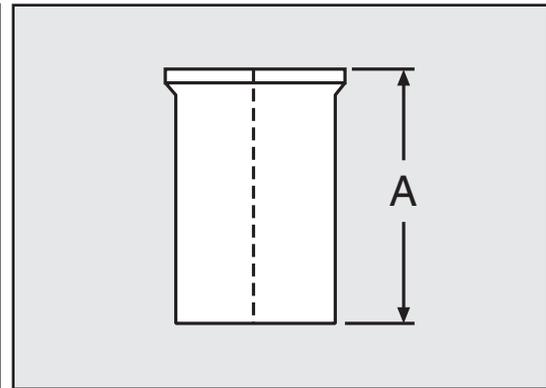
**TL9WWWW CROSS**

SIZE (TUBE O.D.)	A	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
1/2	1-7/8	4011405 - 3	4011405 - 3EP
3/4	2	4011407 - 3	4011407 - 3EP
1	2-1/8	4011410 - 3	4011410 - 3EP
1-1/2	2-3/8	4011415 - 3	4011415 - 3EP
2	2-7/8	4011420 - 3	4011420 - 3EP
2-1/2	3-1/8	4011425 - 3	4011425 - 3EP
3	3-3/8	4011430 - 3	4011430 - 3EP
4	4-1/8	4011440 - 3	4011440 - 3EP
6	5-5/8	4011460 - 3	4011460 - 3EP



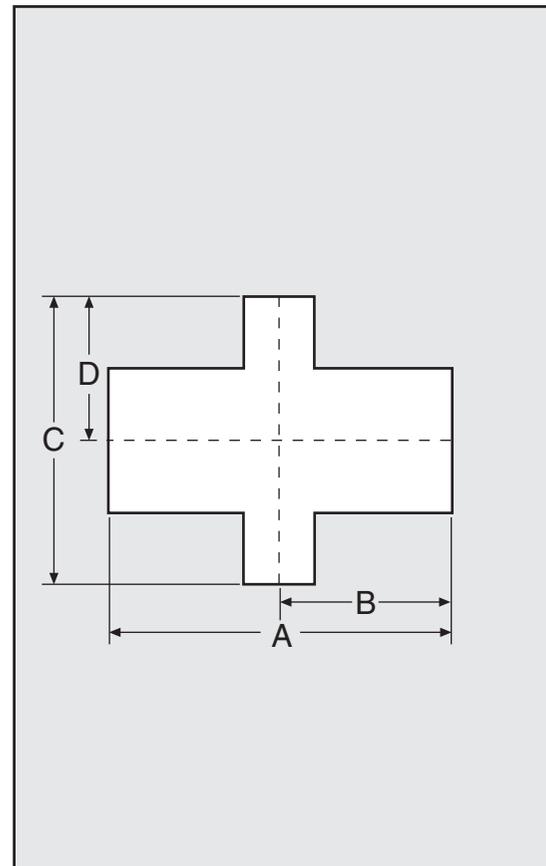
**TL14AM7 FERRULE**

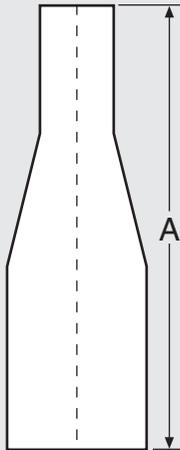
SIZE (TUBE O.D.)	A	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
1/2	1-3/4	407505 - 3	407505 - 3EP
3/4	1-3/4	407507 - 3	407507 - 3EP
1	1-3/4	407510 - 3	407510 - 3EP
1-1/2	1-3/4	407515 - 3	407515 - 3EP
2	2-1/4	407520 - 3	407520 - 3EP
2-1/2	2-1/4	407525 - 3	407525 - 3EP
3	2-1/4	407530 - 3	407530 - 3EP
4	2-1/4	407540 - 3	407540 - 3EP
6	3	407560 - 3	407560 - 3EP



**TL9RWWWW REDUCING CROSS**

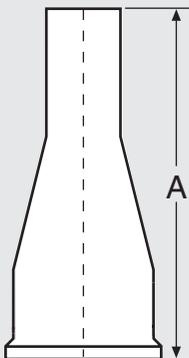
SIZE (TUBE O.D.)	A	B	C	D	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
3/4 x 1/2	4	2	4	2	4011407R05 - 3	4011407R05 - 3EP
1 x 1/2	4-1/4	2-1/8	4-1/4	2-1/8	4011410R05 - 3	4011410R05 - 3EP
1 x 3/4	4-1/4	2-1/8	4-1/4	2-1/8	4011410R07 - 3	4011410R07 - 3EP
1-1/2 x 1/2	4-3/4	2-3/8	4-3/4	2-3/8	4011415R05 - 3	4011415R05 - 3EP
1-1/2 x 3/4	4-3/4	2-3/8	4-3/4	2-3/8	4011415R07 - 3	4011415R07 - 3EP
1-1/2 x 1	4-3/4	2-3/8	4-3/4	2-3/8	4011415R10 - 3	4011415R10 - 3EP
2 x 1/2	5-3/4	2-7/8	5-1/4	2-5/8	4011420R05 - 3	4011420R05 - 3EP
2 x 3/4	5-3/4	2-7/8	5-1/4	2-5/8	4011420R07 - 3	4011420R07 - 3EP
2 x 1	5-3/4	2-7/8	5-1/4	2-5/8	4011420R10 - 3	4011420R10 - 3EP
2 x 1-1/2	5-3/4	2-7/8	5-1/2	2-5/8	4011420R15 - 3	4011420R15 - 3EP
2-1/2 x 1	6-1/4	3-1/8	5-3/4	2-7/8	4011425R10 - 3	4011425R10 - 3EP
2-1/2 x 1-1/2	6-1/4	3-1/8	5-3/4	2-7/8	4011425R15 - 3	4011425R15 - 3EP
2-1/2 x 2	6-1/4	3-1/8	5-3/4	2-7/8	4011425R20 - 3	4011425R20 - 3EP
3 x 1	6-3/4	3-3/8	6-1/4	3-1/8	4011430R10 - 3	4011430R10 - 3EP
3 x 1-1/2	6-3/4	3-3/8	6-1/4	3-1/8	4011430R15 - 3	4011430R15 - 3EP
3 x 2	6-3/4	3-3/8	6-1/4	3-1/8	4011430R20 - 3	4011430R20 - 3EP
3 x 2-1/2	6-3/4	3-3/8	6-1/4	3-1/8	4011430R25 - 3	4011430R25 - 3EP
4 x 1	8-1/4	4-1/8	7-1/4	3-5/8	4011440R10 - 3	4011440R10 - 3EP
4 x 1-1/2	8-1/4	4-1/8	7-1/4	3-5/8	4011440R15 - 3	4011440R15 - 3EP
4 x 2	8-1/4	4-1/8	7-3/4	3-7/8	4011440R20 - 3	4011440R20 - 3EP
4 x 2-1/2	8-1/4	4-1/8	7-3/4	3-7/8	4011440R25 - 3	4011440R25 - 3EP
4 x 3	8-1/4	4-1/8	7-3/4	3-7/8	4011440R30 - 3	4011440R30 - 3EP





### TL31 CONCENTRIC REDUCER

SIZE	A	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
3/4 x 1/2	4	401160705 - 3	401160705 - 3EP
1 x 1/2	4-1/2	401161005 - 3	401161005 - 3EP
1 x 3/4	4	401161007 - 3	401161007 - 3EP
1-1/2 x 1/2	5-1/2	401161505 - 3	401161505 - 3EP
1-1/2 x 3/4	5	401161507 - 3	401161507 - 3EP
1-1/2 x 1	5	401161510 - 3	401161510 - 3EP
2 x 1/2	7-3/4	401162005 - 3	401162005 - 3EP
2 x 3/4	7-1/4	401162007 - 3	401162007 - 3EP
2 x 1	7-1/4	401162010 - 3	401162010 - 3EP
2 x 1-1/2	5-1/4	401162015 - 3	401162015 - 3EP
2-1/2 x 1/2	9-3/4	401162505 - 3	401162505 - 3EP
2-1/2 x 3/4	9-1/4	401162507 - 3	401162507 - 3EP
2-1/2 x 1	9-1/4	401162510 - 3	401162510 - 3EP
2-1/2 x 1-1/2	7-1/4	401162515 - 3	401162515 - 3EP
2-1/2 x 2	5-1/2	401162520 - 3	401162520 - 3EP
3 x 1	11-1/4	401163010 - 3	401163010 - 3EP
3 x 1-1/2	9-1/4	401163015 - 3	401153015 - 3EP
3 x 2	7-1/2	401163020 - 3	401163020 - 3EP
3 x 2-1/2	5-1/2	401163025 - 3	401163025 - 3EP
4 x 1	15-1/2	401164010 - 3	401164010 - 3EP
4 x 1-1/2	13-1/2	401164015 - 3	401164015 - 3EP
4 x 2	11-3/4	401164020 - 3	401164020 - 3EP
4 x 2-1/2	9-3/4	401164025 - 3	401164025 - 3EP
4 x 3	7-3/4	401164030 - 3	401164030 - 3EP
6 x 4	10	401166040 - 3	401166040 - 3EP

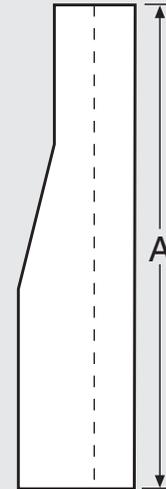


### TL31M CONCENTRIC REDUCER

SIZE	A	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
3/4 x 1/2	3	40116M0705 - 3	40116M0705 - 3EP
1 x 1/2	3-1/2	40116M1005 - 3	40116M1005 - 3EP
1 x 3/4	3	40116M1007 - 3	40116M1007 - 3EP
1-1/2 x 1/2	4-1/2	40116M1505 - 3	40116M1505 - 3EP
1-1/2 x 3/4	4	40116M1507 - 3	40116M1507 - 3EP
1-1/2 x 1	4	40116M1510 - 3	40116M1510 - 3EP
2 x 1/2	6-1/2	40116M2005 - 3	40116M2005 - 3EP
2 x 3/4	6	40116M2007 - 3	40116M2007 - 3EP
2 x 1	6	40116M2010 - 3	40116M2010 - 3EP
2 x 1-1/2	4	40116M2015 - 3	40116M2015 - 3EP
2-1/2 x 1/2	8-1/2	40116M2505 - 3	40116M2505 - 3EP
2-1/2 x 3/4	8	40116M2507 - 3	40116M2507 - 3EP
2-1/2 x 1	8	40116M2510 - 3	40116M2510 - 3EP
2-1/2 x 1-1/2	6	40116M2515 - 3	40116M2515 - 3EP
2-1/2 x 2	4-1/4	40116M2520 - 3	40116M2520 - 3EP
3 x 1	10	40116M3010 - 3	40116M3010 - 3EP
3 x 1-1/2	8	40116M3015 - 3	40116M3015 - 3EP
3 x 2	6-1/4	40116M3020 - 3	40116M3020 - 3EP
3 x 2-1/2	4-1/4	40116M3025 - 3	40116M3025 - 3EP
4 x 1	14-1/8	40116M4010 - 3	40116M4010 - 3EP
4 x 1-1/2	12-1/8	40116M4015 - 3	40116M4015 - 3EP
4 x 2	10-3/8	40116M4020 - 3	40116M4020 - 3EP
4 x 2-1/2	8-3/8	40116M4025 - 3	40116M4025 - 3EP
4 x 3	6-3/8	40116M4030 - 3	40116M4030 - 3EP
6 x 4	9	40116M6040 - 3	40116M6040 - 3EP

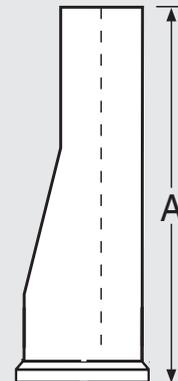
### TL32 ECCENTRIC REDUCER

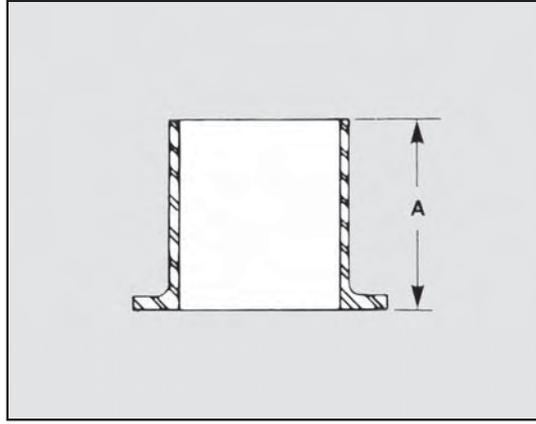
SIZE	A	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
3/4 x 1/2	4	401220705 - 3	401220705 - 3EP
1 x 1/2	4-1/2	401221005 - 3	401221005 - 3EP
1 x 3/4	4	401221007 - 3	401221007 - 3EP
1-1/2 x 1/2	5-1/2	401221505 - 3	401221505 - 3EP
1-1/2 x 3/4	5	401221507 - 3	401221507 - 3EP
1-1/2 x 1	5	401221510 - 3	401221510 - 3EP
2 x 1/2	7-3/4	401222005 - 3	401222005 - 3EP
2 x 3/4	7-1/4	401222007 - 3	401222007 - 3EP
2 x 1	7-1/4	401222010 - 3	401222010 - 3EP
2 x 1-1/2	5-1/4	401222015 - 3	401222015 - 3EP
2-1/2 x 1/2	9-3/4	401222505 - 3	401222505 - 3EP
2-1/2 x 3/4	9-1/4	401222507 - 3	401222507 - 3EP
2-1/2 x 1	9-1/4	401222510 - 3	401222510 - 3EP
2-1/2 x 1-1/2	7-1/4	401222515 - 3	401222515 - 3EP
2-1/2 x 2	5-1/2	401222520 - 3	401222520 - 3EP
3 x 1	11-1/4	401223010 - 3	401223010 - 3EP
3 x 1-1/2	9-1/4	401223015 - 3	401223015 - 3EP
3 x 2	7-1/2	401223020 - 3	401223020 - 3EP
3 x 2-1/2	5-1/2	401223025 - 3	401223025 - 3EP
4 x 1	15-1/2	401224010 - 3	401224010 - 3EP
4 x 1-1/2	13-1/2	401224015 - 3	401224010 - 3EP
4 x 2	11-3/4	401224020 - 3	401224020 - 3EP
4 x 2-1/2	9-3/4	401224025 - 3	401224025 - 3EP
4 x 3	7-3/4	401224030 - 3	401224030 - 3EP
6 x 4	10	401226040 - 3	401226040 - 3EP



### TL32M ECCENTRIC REDUCER

SIZE	A	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
3/4 x 1/2	3	40122M0705 - 3	40122M0705 - 3EP
1 x 1/2	3-1/2	40122M1005 - 3	40122M1005 - 3EP
1 x 3/4	3	40122M1007 - 3	40122M1007 - 3EP
1-1/2 x 1/2	4-1/2	40122M1505 - 3	40122M1505 - 3EP
1-1/2 x 3/4	4	40122M1507 - 3	40122M1507 - 3EP
1-1/2 x 1	4	40122M1510 - 3	40122M1510 - 3EP
2 x 1/2	6-1/2	40122M2005 - 3	40122M2005 - 3EP
2 x 3/4	6	40122M2007 - 3	40122M2007 - 3EP
2 x 1	6	40122M2010 - 3	40122M2010 - 3EP
2 x 1-1/2	4	40122M2015 - 3	40122M2015 - 3EP
2-1/2 x 1/2	8-1/2	40122M2505 - 3	40122M2505 - 3EP
2-1/2 x 3/4	8	40122M2507 - 3	40122M2507 - 3EP
2-1/2 x 1	8	40122M2510 - 3	40122M2510 - 3EP
2-1/2 x 1-1/2	6	40122M2515 - 3	40122M2515 - 3EP
2-1/2 x 2	4-1/4	40122M2520 - 3	40122M2520 - 3EP
3 x 1	10	40122M3010 - 3	40122M3010 - 3EP
3 x 1-1/2	8	40122M3015 - 3	40122M3015 - 3EP
3 x 2	6-1/4	40122M3020 - 3	40122M3020 - 3EP
3 x 2-1/2	4-1/4	40122M3025 - 3	40122M3025 - 3EP
4 x 1	14-1/8	40122M4010 - 3	40122M4010 - 3EP
4 x 1-1/2	12-1/8	40122M4015 - 3	40122M4015 - 3EP
4 x 2	10-3/8	40122M4020 - 3	40122M4020 - 3EP
4 x 2-1/2	8-3/8	40122M4025 - 3	40122M4025 - 3EP
4 x 3	6-3/8	40122M4030 - 3	40122M4030 - 3EP
6 x 4	9	40122M6040 - 3	40122M6040 - 3EP

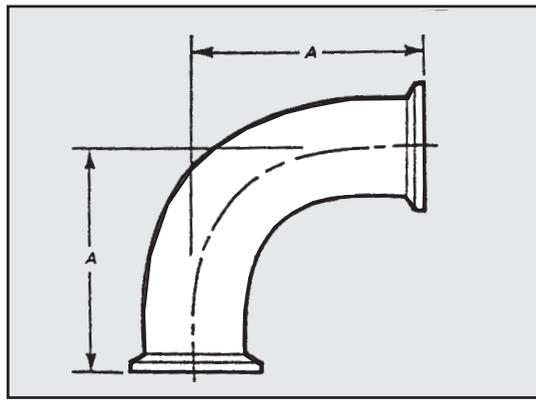




### TL14VB STUB END

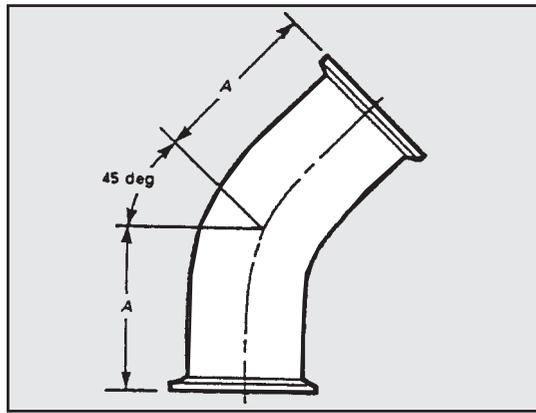
SIZE (TUBE O.D.)	A	STOCK NO. 20 RA MECH ID	STOCK NO. 15 RA EP ID
1/2	2	4030705 - 3LS	4030705 - 3LSEP
3/4	2	4030707 - 3LS	4030707 - 3LSEP
1	2-3/4	4030710 - 3LS	4030710 - 3LSEP
1-1/2	2-3/4	4030715 - 3LS	4030715 - 3LSEP
2	2-3/4	4030720 - 3LS	4030720 - 3LSEP
2-1/2	2-3/4	4030725 - 3LS	4030725 - 3LSEP
3	2-3/4	4030730 - 3LS	4030730 - 3LSEP
4	2-3/4	4030740 - 3LS	4030740 - 3LSEP
6	4	4030760 - 3LS	4030760 - 3LSEP

\* Stub end flange face is phonographed



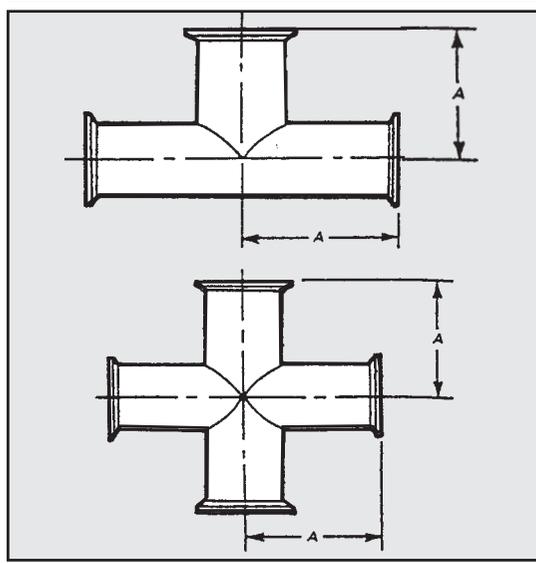
### 2CMP - 90° ELL

SIZE	A	STOCK NO.
1/2	1-5/8	48705
3/4	1-5/8	48707
1	2	48710
1-1/2	2-3/4	48715
2	3-1/2	48720
2-1/2	4-1/4	48725
3	5	48730
4	6-5/8	48740
6	10-1/2	48760



### 2KMP - 45° ELL

SIZE	A	STOCK NO.
1/2	1	48805
3/4	1	48807
1	1-1/8	48810
1-1/2	1-7/16	48815
2	1-3/4	48820
2-1/2	2-1/16	48825
3	2-3/8	48830
4	3-1/8	48840
6	5-1/4	48860

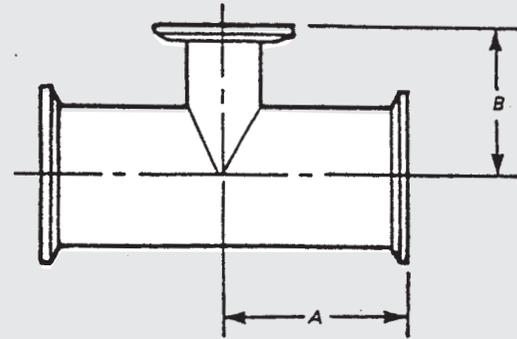


### STRAIGHT TEE & CROSS

SIZE	A	7MP TEE STOCK NO.	9MP CROSS STOCK NO.
1/2	2-1/4	481105	4810105
3/4	2-3/8	481107	4810107
1	2-5/8	481110	4810110
1-1/2	2-7/8	481115	4810115
2	3-3/8	481120	4810120
2-1/2	3-5/8	481125	4810125
3	3-7/8	481130	4810130
4	4-3/4	481140	4810140
6	7-1/8	481160	4810160

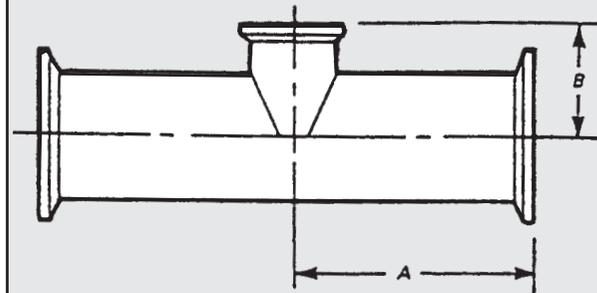
### 7RMP REDUCING TEE

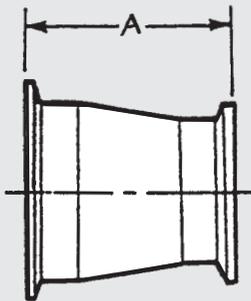
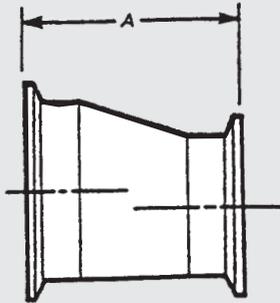
SIZE	A	B	STOCK NO.
3/4 x 1/2	2-1/2	2-1/2	481107R05
1 x 1/2	2-5/8	2-5/8	481110R05
1 x 3/4	2-5/8	2-5/8	481110R07
1-1/2 x 1/2	2-7/8	2-7/8	481115R05
1-1/2 x 3/4	2-7/8	2-7/8	481115R07
1-1/2 x 1	2-7/8	2-7/8	481115R10
2 x 1/2	3-3/8	3-1/8	481120R05
2 x 3/4	3-3/8	3-1/8	481120R07
2 x 1	3-3/8	3-1/8	481120R10
2 x 1-1/2	3-3/8	3-1/8	481120R15
2-1/2 x 1/2	3-5/8	3-3/8	481125R05
2-1/2 x 3/4	3-5/8	3-3/8	481125R07
2-1/2 x 1	3-5/8	3-3/8	481125R10
2-1/2 x 1-1/2	3-5/8	3-3/8	481125R15
2-1/2 x 2	3-5/8	3-3/8	481125R20
3 x 1/2	3-7/8	3-5/8	481130R05
3 x 3/4	3-7/8	3-5/8	481130R07
3 x 1	3-7/8	3-5/8	481130R10
3 x 1-1/2	3-7/8	3-5/8	481130R15
3 x 2	3-7/8	3-7/8	481130R20
3 x 2-1/2	3-7/8	3-7/8	481130R25
4 x 1/2	4-3/4	4-1/8	481140R05
4 x 3/4	4-3/4	4-1/8	481140R07
4 x 1	4-3/4	4-1/8	481140R10
4 x 1-1/2	4-3/4	4-1/8	481140R15
4 x 2	4-3/4	4-3/8	481140R20
4 x 2-1/2	4-3/4	4-3/8	481140R25
4 x 3	4-3/4	4-3/8	481140R30
6 x 4	7-1/8	5-3/4	481160R40



### 7RMPs REDUCING TEE

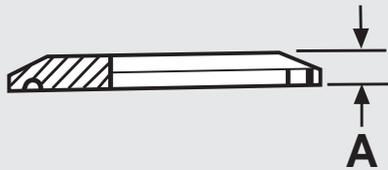
SIZE	A	B	STOCK NO.
3/4 x 1/2	2-1/2	1	481107RS05
1 x 1/2	2-5/8	1-1/8	481110RS05
1 x 3/4	2-5/8	1-1/8	481110RS07
1-1/2 x 1/2	2-7/8	1-3/8	481115RS05
1-1/2 x 3/4	2-7/8	1-3/8	481115RS07
1-1/2 x 1	2-7/8	1-3/8	481115RS10
2 x 1/2	3-3/8	1-5/8	481120RS05
2 x 3/4	3-3/8	1-5/8	481120RS07
2 x 1	3-3/8	1-5/8	481120RS10
2 x 1-1/2	3-3/8	1-5/8	481120RS15
2-1/2 x 1/2	3-5/8	1-7/8	481125RS05
2-1/2 x 3/4	3-5/8	1-7/8	481125RS07
2-1/2 x 1	3-5/8	1-7/8	481125RS10
2-1/2 x 1-1/2	3-5/8	1-7/8	481125RS15
2-1/2 x 2	3-5/8	1-7/8	481125RS20
3 x 1/2	3-7/8	2-1/8	481130RS05
3 x 3/4	3-7/8	2-1/8	481130RS07
3 x 1	3-7/8	2-1/8	481130RS10
3 x 1-1/2	3-7/8	2-1/8	481130RS15
3 x 2	3-7/8	2-1/8	481130RS20
3 x 2-1/2	3-7/8	2-1/8	481130RS25
4 x 1/2	4-3/4	2-5/8	481140RS05
4 x 3/4	4-3/4	2-5/8	481140RS07
4 x 1	4-3/4	2-5/8	481140RS10
4 x 1-1/2	4-3/4	2-5/8	481140RS15
4 x 2	4-3/4	2-5/8	481140RS20
4 x 2-1/2	4-3/4	2-5/8	481140RS25
4 x 3	4-3/4	2-5/8	481140RS30
6 x 4	7-1/8	3-3/4	481160RS40





### CONCENTRIC & ECCENTRIC REDUCER

SIZE	A	31-14MP STOCK NO.	32-14MP STOCK NO.
3/4 x 1/2	2	48840705	48850705
1 x 1/2	2-1/2	48841005	48851005
1 x 3/4	2	48841007	48851007
1-1/2 x 1/2	3-1/2	48841505	48851505
1-1/2 x 3/4	3	48841507	48851507
1-1/2 x 1	3	48841510	48851510
2 x 1/2	5-1/2	48842005	48852005
2 x 3/4	5	48842007	48852007
2 x 1	5	48842010	48852010
2 x 1-1/2	3	48842015	48852015
2-1/2 x 1/2	7-1/2	48842505	48852505
2-1/2 x 3/4	7	48842507	48852507
2-1/2 x 1	7	48842510	48852510
2-1/2 x 1-1/2	5	48842515	48852515
2-1/2 x 2	3	48842520	48852520
3 x 1	9	48843010	48853010
3 x 1-1/2	7	48843015	48853015
3 x 2	5	48843020	48853020
3 x 2-1/2	3	48843025	48853025
4 x 1	13-1/8	48844010	48854010
4 x 1-1/2	11-1/8	48844015	48854015
4 x 2	9-1/8	48844020	48854020
4 x 2-1/2	7-1/8	48844025	48854025
4 x 3	5-1/8	48844030	48854030
6 x 4	7-5/8	48846040	48856040



### 16AMP - SOLID END CAP

SIZE	A	STOCK NO.
1 & 1-1/2	1/4	489815
2	1/4	489820
2-1/2	1/4	489825
3	1/4	489830
4	5/16	489840
6	1/2	489860

## NOTES

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. . . the source for all your product needs  
in the process industries

# TOP LINE

Contact your Top Line  
Representative for Assistance

Office: P.O. Box 264

Bradford, PA 16701

Plant: 21 Valley Hunt Drive

Lewis Run, PA 16738

800-458-6095

814-362-4626

Fax: 814-362-4453



[www.toplineonline.com](http://www.toplineonline.com)

## PUMPS - Centrifugal, Rotary Lobe, Magnetic Drive



## VALVES - Manual, Actuated, Diaphragm



## FITTINGS - Clamp, Sanitary Butt Weld, Bevel Seat, Tube OD Butt weld, Custom, Biopharm



## TUBING, GAUGES, SIGHT GLASSES, BRAIDED HOSE

