

## 600. FITTINGS ASME BPE

### Function:

- Stainless steel fittings in compliance with ASME BPE requirements.
- Material: AISI 316L  
Finish: SF1: Inside Ra 0.5 $\mu$ / Outside: Mechanical polished  
SF4: Inside Ra 0.5 $\mu$  electropolished / Outside: Mechanical polished
- Dimensions: As per ASME BPE specified.

### Applications:

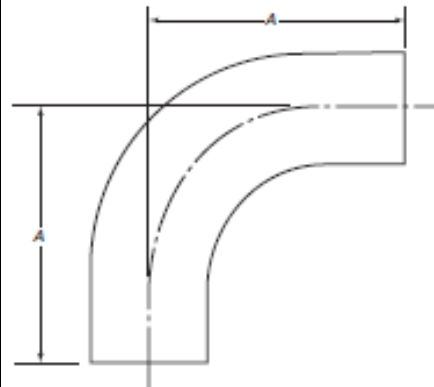
- Pharmaceutical and Biopharmaceuticals applications



| OD TUBING    |         |                     |            |
|--------------|---------|---------------------|------------|
| Nominal size | Tube OD | Tube wall thickness | Part#      |
| inches       | in mm   | in mm               |            |
| 1/4          | 6.35    | 0.89                | 601-1-SF1  |
| 3/8          | 9.53    | 0.89                | 601-2-SF1  |
| 1/2          | 12.7    | 1.65                | 601-3-SF1  |
| 3/4          | 19.05   | 1.65                | 601-4-SF1  |
| 1            | 25.4    | 1.65                | 601-5-SF1  |
| 1 1/2        | 38.1    | 1.65                | 601-6-SF1  |
| 2            | 50.8    | 1.65                | 601-7-SF1  |
| 2 1/2        | 63.5    | 1.65                | 601-8-SF1  |
| 3            | 76.2    | 1.65                | 601-9-SF1  |
| 4            | 101.6   | 2.11                | 601-10-SF1 |
| 6            | 152.4   | 2.77                | 601-11-SF1 |

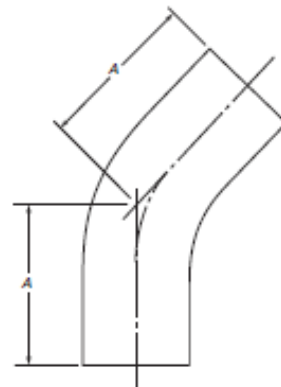
## AUTOMATIC TUBE WELD 90 deg ELBOW-DT-7

| Nominal size | A     | Part#     |
|--------------|-------|-----------|
| inches       | in mm |           |
| 1/2          | 12.5  | 602-1-SF1 |
| 3/4          | 76.2  | 602-2-SF1 |
| 1            | 76.2  | 602-3-SF1 |
| 1 1/2        | 95.3  | 602-4-SF1 |
| 2            | 120.7 | 602-5-SF1 |
| 2 1/2"       | 139.7 | 602-6-SF1 |
| 3            | 158.8 | 602-7-SF1 |
| 4            | 203.2 | 602-8-SF1 |
| 6            | 292.1 | 602-9-SF1 |



## AUTOMATIC TUBE WELD 45 deg ELBOW-DT-8

| Nominal size | A     | Part#     |
|--------------|-------|-----------|
| inches       | in mm |           |
| 1/2          | 57.2  | 603-1-SF1 |
| 3/4          | 57.2  | 603-2-SF1 |
| 1            | 57.2  | 603-3-SF1 |
| 1 1/2        | 63.5  | 603-4-SF1 |
| 2            | 76.2  | 603-5-SF1 |
| 2 1/2"       | 85.7  | 603-6-SF1 |
| 3            | 92.1  | 603-7-SF1 |
| 4            | 114.3 | 603-8-SF1 |
| 6            | 158.8 | 603-9-SF1 |



GEOMETRY ENGINEERING INNOVATION,

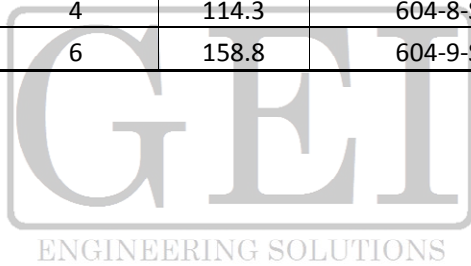
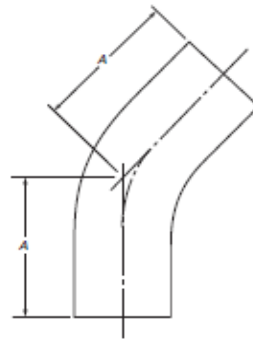
No 4, Basaveshwara Industrial Area, Rajagopalnagar Main road, Bangalore-560056

[www.geiprocess.com](http://www.geiprocess.com). E-mail:info@geiprocess.com DOC DT000600 R0

# GEI Process

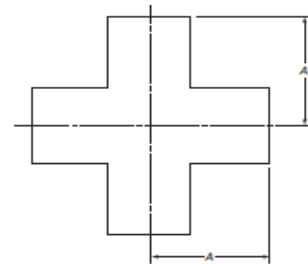
## AUTOMATIC TUBE WELD 45 deg ELBOW-DT-8

| Nominal size | A     | Part#     |
|--------------|-------|-----------|
| inches       | in mm |           |
| 1/2          | 57.2  | 604-1-SF1 |
| 3/4          | 57.2  | 604-2-SF1 |
| 1            | 57.2  | 604-3-SF1 |
| 1 1/2        | 63.5  | 604-4-SF1 |
| 2            | 76.2  | 604-5-SF1 |
| 2 1/2"       | 85.7  | 604-6-SF1 |
| 3            | 92.1  | 604-7-SF1 |
| 4            | 114.3 | 604-8-SF1 |
| 6            | 158.8 | 604-9-SF1 |

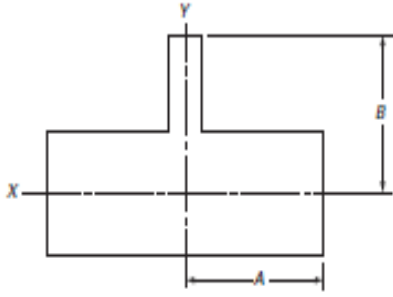


## CROSS DT-9

| Nominal size | A     | Part#     |
|--------------|-------|-----------|
| inches       | in mm |           |
| 1/2          | 47.6  | 605-1-SF1 |
| 3/4          | 50.8  | 605-2-SF1 |
| 1            | 54.0  | 605-3-SF1 |
| 1 1/2        | 60.3  | 605-4-SF1 |
| 2            | 73.0  | 605-5-SF1 |
| 2 1/2"       | 79.4  | 605-6-SF1 |
| 3            | 85.7  | 605-7-SF1 |
| 4            | 104.8 | 605-8-SF1 |
| 6            | 142.9 | 605-9-SF1 |

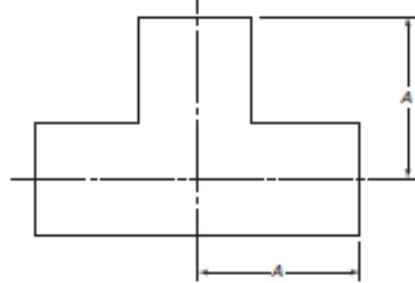


# GEI Process

| REDUCING TEE DT-10  |       |       |       |            |                                                                                    |
|---------------------|-------|-------|-------|------------|------------------------------------------------------------------------------------|
| Nominal size inches |       | A     | B     | Part#      |                                                                                    |
| X                   | Y     | in mm | in mm |            |                                                                                    |
| 1/2                 | 1/4   | 47.6  | 47.6  | 606-1-SF1  |  |
| 1/2                 | 3/8   | 47.6  | 47.6  | 606-2-SF1  |                                                                                    |
| 3/4                 | 1/4   | 50.8  | 50.8  | 606-3-SF1  |                                                                                    |
| 3/4                 | 1/2   | 50.8  | 50.8  | 606-4-SF1  |                                                                                    |
| 1                   | 1/2   | 54.0  | 54.0  | 606-5-SF1  |                                                                                    |
| 1                   | 3/4   | 54.0  | 54.0  | 606-6-SF1  |                                                                                    |
| 1 1/2               | 1/2   | 60.3  | 60.3  | 606-7-SF1  |                                                                                    |
| 1 1/2               | 3/4   | 60.3  | 60.3  | 606-8-SF1  |                                                                                    |
| 1 1/2               | 1     | 60.3  | 60.3  | 606-9-SF1  |                                                                                    |
| 2                   | 1/2   | 73.0  | 66.7  | 606-10-SF1 |                                                                                    |
| 2                   | 3/4   | 73.0  | 66.7  | 606-11-SF1 |                                                                                    |
| 2                   | 1     | 73.0  | 66.7  | 606-12-SF1 |                                                                                    |
| 2                   | 1 1/2 | 73.0  | 66.7  | 606-13-SF1 |                                                                                    |
| 3                   | 1/2   | 85.7  | 79.4  | 606-14-SF1 |                                                                                    |
| 3                   | 3/4   | 85.7  | 79.4  | 606-15-SF1 |                                                                                    |
| 3                   | 1     | 85.7  | 79.4  | 606-16-SF1 |                                                                                    |
| 3                   | 1 1/2 | 85.7  | 79.4  | 606-17-SF1 |                                                                                    |
| 3                   | 2     | 85.7  | 79.4  | 606-18-SF1 |                                                                                    |
| 4                   | 1/2   | 104.8 | 92.1  | 606-19-SF1 |                                                                                    |
| 4                   | 3/4   | 104.8 | 92.1  | 606-20-SF1 |                                                                                    |
| 4                   | 1     | 104.8 | 92.1  | 606-21-SF1 |                                                                                    |
| 4                   | 1 1/2 | 104.8 | 92.1  | 606-22-SF1 |                                                                                    |
| 4                   | 2     | 104.8 | 98.4  | 606-23-SF1 |                                                                                    |
| 4                   | 3     | 104.8 | 98.4  | 606-24-SF1 |                                                                                    |
| 6                   | 3     | 142.9 | 123.8 | 606-25-SF1 |                                                                                    |
| 6                   | 4     | 142.9 | 130.2 | 606-26-SF1 |                                                                                    |

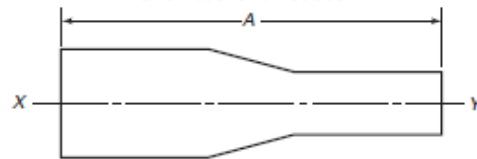
## AUTOMATIC TUBE WELD-STRAIGHT TEE DT-9

| Nominal size | A     | Part#     |
|--------------|-------|-----------|
| inches       | in mm |           |
| 1/2          | 47.6  | 607-1-SF1 |
| 3/4          | 50.8  | 607-2-SF1 |
| 1            | 54.0  | 607-3-SF1 |
| 1 1/2        | 60.3  | 607-4-SF1 |
| 2            | 73.0  | 607-5-SF1 |
| 2 1/2        | 79.4  | 607-6-SF1 |
| 3            | 85.7  | 607-7-SF1 |
| 4            | 104.8 | 607-8-SF1 |
| 6            | 142.9 | 607-9-SF1 |



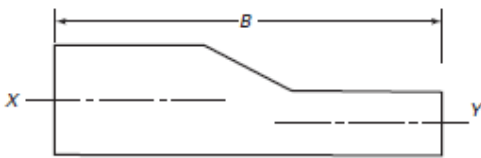
## CONCENTRIC REDUCER DT-11

| Nominal size |       | A     | Part#      |
|--------------|-------|-------|------------|
| inches       |       | in mm |            |
| X            | Y     |       |            |
| 3/4          | 1/2   | 101.6 | 608-1-SF1  |
| 1            | 1/2   | 114.3 | 608-2-SF1  |
| 1            | 3/4   | 101.6 | 608-3-SF1  |
| 1 1/2        | 1/2   | 139.7 | 608-4-SF1  |
| 1 1/2        | 3/4   | 127.0 | 608-5-SF1  |
| 1 1/2        | 1     | 127.0 | 608-6-SF1  |
| 2            | 1/2   | 196.9 | 608-7-SF1  |
| 2            | 3/4   | 184.2 | 608-8-SF1  |
| 2            | 1     | 184.2 | 608-9-SF1  |
| 2            | 1 1/2 | 133.4 | 608-10-SF1 |
| 3            | 1     | 285.8 | 608-11-SF1 |
| 3            | 1 1/2 | 235.0 | 608-12-SF1 |
| 3            | 2     | 190.5 | 608-13-SF1 |
| 4            | 1     | 393.7 | 608-14-SF1 |
| 4            | 1 1/2 | 342.9 | 608-15-SF1 |
| 4            | 2     | 298.5 | 608-16-SF1 |
| 4            | 3     | 196.9 | 608-17-SF1 |
| 6            | 3     | 254.0 | 608-18-SF1 |
| 6            | 4     | 254.0 | 608-19-SF1 |

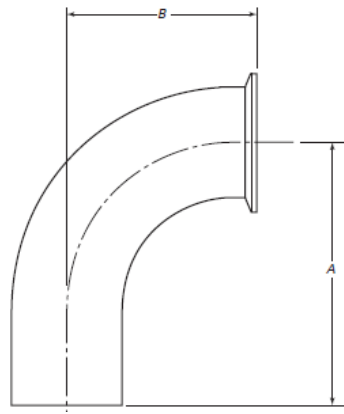


# GEI Process

| ECCENTRIC REDUCER DT-11 |       |       |            |
|-------------------------|-------|-------|------------|
| Nominal size inches     |       | A     | Part#      |
| X                       | Y     | in mm |            |
| 3/4                     | 1/2   | 101.6 | 609-1-SF1  |
| 1                       | 1/2   | 114.3 | 609-2-SF1  |
| 1                       | 3/4   | 101.6 | 609-3-SF1  |
| 1 1/2                   | 1/2   | 139.7 | 609-4-SF1  |
| 1 1/2                   | 3/4   | 127.0 | 609-5-SF1  |
| 1 1/2                   | 1     | 127.0 | 609-6-SF1  |
| 2                       | 1/2   | 196.9 | 609-7-SF1  |
| 2                       | 3/4   | 184.2 | 609-8-SF1  |
| 2                       | 1     | 184.2 | 609-9-SF1  |
| 2                       | 1 1/2 | 133.4 | 609-10-SF1 |
| 3                       | 1     | 285.8 | 609-11-SF1 |
| 3                       | 1 1/2 | 235.0 | 609-12-SF1 |
| 3                       | 2     | 190.5 | 609-13-SF1 |
| 4                       | 1     | 393.7 | 609-14-SF1 |
| 4                       | 1 1/2 | 342.9 | 609-15-SF1 |
| 4                       | 2     | 298.5 | 609-16-SF1 |
| 4                       | 3     | 196.9 | 609-17-SF1 |
| 6                       | 3     | 254.0 | 609-18-SF1 |
| 6                       | 4     | 254.0 | 609-19-SF1 |

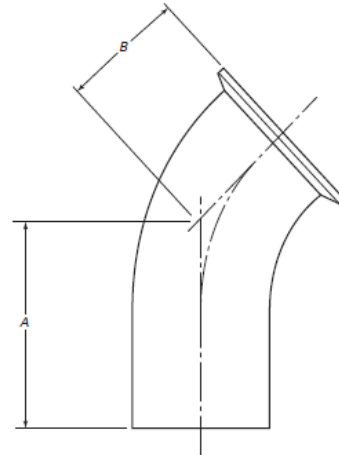


| HYGIENIC CLAMP JOINT 90 DEG ELBOW DT-12 |      |         |         |            |
|-----------------------------------------|------|---------|---------|------------|
| Nominal size inches                     | Type | A in mm | B in mm | Part#      |
| 1/2                                     | A    | 76.2    | 41.3    | 610-1-SF1  |
| 3/4                                     | A    | 76.2    | 41.3    | 610-2-SF1  |
| 1                                       | A    | 76.2    | 50.8    | 610-3-SF1  |
| 1                                       | B    | 76.2    | 50.8    | 610-4-SF1  |
| 1 1/2                                   | B    | 95.3    | 69.9    | 610-5-SF1  |
| 2                                       | B    | 120.7   | 88.9    | 610-6-SF1  |
| 2 1/2"                                  | B    | 139.7   | 108.0   | 610-7-SF1  |
| 3                                       | B    | 158.8   | 127.0   | 610-8-SF1  |
| 4                                       | B    | 203.2   | 168.3   | 610-9-SF1  |
| 6                                       | B    | 292.1   | 266.7   | 610-10-SF1 |



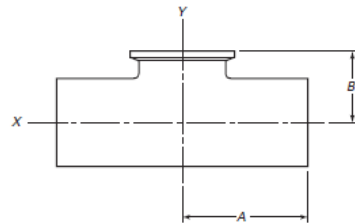
## HYGIENIC CLAMP JOINT 45 DEG ELBOW DT-13

| Nominal size | Type | A     | B     | Part#      |
|--------------|------|-------|-------|------------|
| inches       |      | in mm | in mm |            |
| 1/2          | A    | 57.2  | 25.4  | 611-1-SF1  |
| 3/4          | A    | 57.2  | 25.4  | 611-2-SF1  |
| 1            | A    | 57.2  | 28.6  | 611-3-SF1  |
| 1            | B    | 57.2  | 28.6  | 611-4-SF1  |
| 1 1/2        | B    | 63.5  | 36.5  | 611-5-SF1  |
| 2            | B    | 76.2  | 44.5  | 611-6-SF1  |
| 2 1/2"       | B    | 85.7  | 52.4  | 611-7-SF1  |
| 3            | B    | 92.1  | 60.3  | 611-8-SF1  |
| 4            | B    | 114.3 | 79.4  | 611-9-SF1  |
| 6            | B    | 158.8 | 133.4 | 611-10-SF1 |



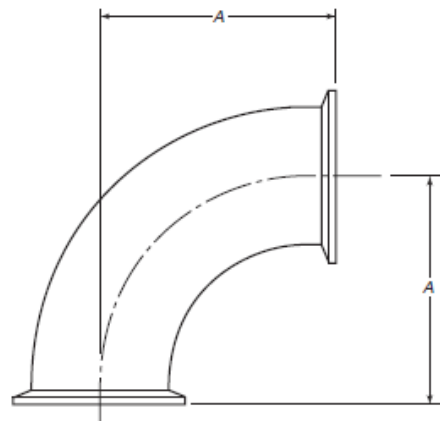
## SHORT OUTLET HYGIENIC CLAMP JOINT REDUCING TEE DT-15

| Nominal size | Type | A     | B     | Part#     |
|--------------|------|-------|-------|-----------|
| inches       |      | in mm | in mm |           |
| X            |      | in mm | in mm |           |
| 1/2          | A    | 44.5  | 25.4  | 612-1-SF1 |
| 3/4          | A    | 50.8  | 25.4  | 612-2-SF1 |
| 1            | B    | 54.0  | 28.6  | 612-3-SF1 |
| 1 1/2        | B    | 60.3  | 34.9  | 612-4-SF1 |
| 2            | B    | 73.0  | 41.3  | 612-5-SF1 |
| 3            | B    | 85.7  | 54.0  | 612-6-SF1 |
| 4            | B    | 104.8 | 69.9  | 612-7-SF1 |
| 6            | B    | 142.9 | 117.5 | 612-8-SF1 |



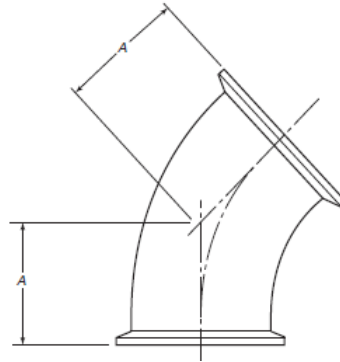
## HYGIENIC CLAMP JOINT-ELBOW-90 deg DT-16

| Nominal size | A     | Part#     |
|--------------|-------|-----------|
| inches       | in mm |           |
| 1/2          | 41.3  | 613-1-SF1 |
| 3/4          | 41.3  | 613-2-SF1 |
| 1            | 50.8  | 613-3-SF1 |
| 1 1/2        | 69.9  | 613-4-SF1 |
| 2            | 88.9  | 613-5-SF1 |
| 2 1/2"       | 108.0 | 613-6-SF1 |
| 3            | 127.0 | 613-7-SF1 |
| 4            | 168.3 | 613-8-SF1 |
| 6            | 266.7 | 613-1-SF1 |



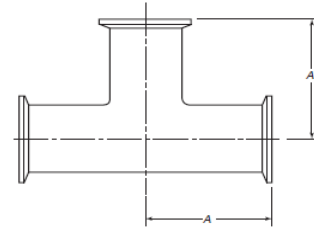
## HYGIENIC CLAMP JOINT-ELBOW-45 deg DT-17

| Nominal size | A     | Part#     |
|--------------|-------|-----------|
| inches       | in mm |           |
| 1/2          | 25.4  | 614-1-SF1 |
| 3/4          | 25.4  | 614-2-SF1 |
| 1            | 28.6  | 614-3-SF1 |
| 1 1/2        | 36.5  | 614-4-SF1 |
| 2            | 44.5  | 614-5-SF1 |
| 2 1/2"       | 52.4  | 614-6-SF1 |
| 3            | 60.3  | 614-7-SF1 |
| 4            | 79.4  | 614-8-SF1 |
| 6            | 133.4 | 614-1-SF1 |



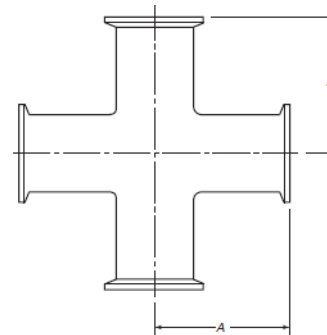
## HYGIENIC CLAMP JOINT :STRAIGHT TEE DT-18

| Nominal size | Type | A     | Part#     |
|--------------|------|-------|-----------|
| inches       |      | in mm |           |
| 1/2          | A    | 57.2  | 615-1-SF1 |
| 3/4          | A    | 60.3  | 615-2-SF1 |
| 1            | B    | 66.7  | 615-3-SF1 |
| 1 1/2        | B    | 73.0  | 615-4-SF1 |
| 2            | B    | 85.7  | 615-5-SF1 |
| 2 1/2"       | B    | 92.1  | 615-6-SF1 |
| 3            | B    | 98.4  | 615-7-SF1 |
| 4            | B    | 120.7 | 615-8-SF1 |
| 6            | B    | 181.0 | 615-1-SF1 |



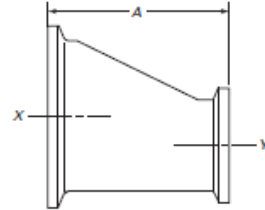
## HYGIENIC CLAMP JOINT :CROSS DT-18

| Nominal size | Type | A     | Part#     |
|--------------|------|-------|-----------|
| inches       |      | in mm |           |
| 1/2          | A    | 57.2  | 616-1-SF1 |
| 3/4          | A    | 60.3  | 616-2-SF1 |
| 1            | B    | 66.7  | 616-3-SF1 |
| 1 1/2        | B    | 73.0  | 616-4-SF1 |
| 2            | B    | 85.7  | 616-5-SF1 |
| 2 1/2"       | B    | 92.1  | 616-6-SF1 |
| 3            | B    | 98.4  | 616-7-SF1 |
| 4            | B    | 120.7 | 616-8-SF1 |
| 6            | B    | 181.0 | 616-1-SF1 |

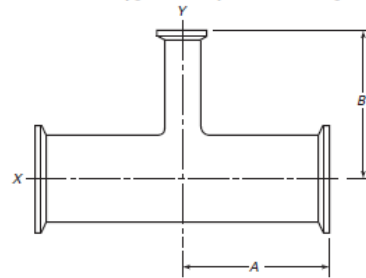


## HYGENIC CLAMP JOINT-ECCENTRIC REDUCER DT 21

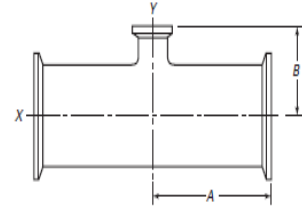
| Nominal size<br>inches |       | Type | A     | Part#      |
|------------------------|-------|------|-------|------------|
| X                      | Y     |      | in mm |            |
| 3/4                    | 1/2   | A/A  | 50.8  | 617-1-SF1  |
| 1                      | 1/2   | B/A  | 63.5  | 617-2-SF1  |
| 1                      | 3/4   | B/A  | 50.8  | 617-3-SF1  |
| 1 1/2                  | 1/2   | B/A  | 88.9  | 617-4-SF1  |
| 1 1/2                  | 3/4   | B/A  | 76.2  | 617-5-SF1  |
| 1 1/2                  | 1     | B/B  | 76.2  | 617-6-SF1  |
| 2                      | 1/2   | B/A  | 139.7 | 617-7-SF1  |
| 2                      | 3/4   | B/A  | 127.0 | 617-8-SF1  |
| 2                      | 1     | B/B  | 127.0 | 617-9-SF1  |
| 2                      | 1 1/2 | B/B  | 76.2  | 617-10-SF1 |
| 3                      | 1     | B/B  | 228.6 | 617-11-SF1 |
| 3                      | 1 1/2 | B/B  | 177.8 | 617-12-SF1 |
| 3                      | 2     | B/B  | 127.0 | 617-13-SF1 |
| 4                      | 1     | B/B  | 333.4 | 617-14-SF1 |
| 4                      | 1 1/2 | B/B  | 282.6 | 617-15-SF1 |
| 4                      | 2     | B/B  | 231.8 | 617-16-SF1 |
| 4                      | 3     | B/B  | 130.2 | 617-17-SF1 |
| 6                      | 3     | B/B  | 193.7 | 617-18-SF1 |
| 6                      | 4     | B/B  | 193.7 | 617-19-SF1 |



| HYGIENIC CLAMP JOINT: REDUCING TEE DT-19 |       |      |       |       |            |
|------------------------------------------|-------|------|-------|-------|------------|
| Nominal size<br>inches                   |       | Type | A     | B     | Part#      |
| X                                        | Y     |      | in mm | in mm |            |
| 1/2                                      | 1/4   | A/A  | 60.3  | 60.3  | 618-1-SF1  |
| 1/2                                      | 3/8   | A/A  | 60.3  | 60.3  | 618-2-SF1  |
| 3/4                                      | 1/4   | A/A  | 63.5  | 63.5  | 618-3-SF1  |
| 3/4                                      | 1/2   | A/A  | 63.5  | 63.5  | 618-4-SF1  |
| 1                                        | 1/2   | B/A  | 66.7  | 66.7  | 618-5-SF1  |
| 1                                        | 3/4   | B/A  | 66.7  | 66.7  | 618-6-SF1  |
| 1 1/2                                    | 1/2   | B/A  | 73.0  | 73.0  | 618-7-SF1  |
| 1 1/2                                    | 3/4   | B/A  | 73.0  | 73.0  | 618-8-SF1  |
| 1 1/2                                    | 1     | B/B  | 73.0  | 73.0  | 618-9-SF1  |
| 2                                        | 1/2   | B/A  | 85.7  | 79.4  | 618-10-SF1 |
| 2                                        | 3/4   | B/A  | 85.7  | 79.4  | 618-11-SF1 |
| 2                                        | 1     | B/B  | 85.7  | 79.4  | 618-12-SF1 |
| 2                                        | 1 1/2 | B/B  | 85.7  | 79.4  | 618-13-SF1 |
| 3                                        | 1/2   | B/A  | 98.4  | 92.1  | 618-14-SF1 |
| 3                                        | 3/4   | B/A  | 98.4  | 92.1  | 618-15-SF1 |
| 3                                        | 1     | B/B  | 98.4  | 92.1  | 618-16-SF1 |
| 3                                        | 1 1/2 | B/B  | 98.4  | 92.1  | 618-17-SF1 |
| 3                                        | 2     | B/B  | 98.4  | 92.1  | 618-18-SF1 |
| 4                                        | 1/2   | B/A  | 120.7 | 111.1 | 618-19-SF1 |
| 4                                        | 3/4   | B/A  | 120.7 | 111.1 | 618-20-SF1 |
| 4                                        | 1     | B/B  | 120.7 | 111.1 | 618-21-SF1 |
| 4                                        | 1 1/2 | B/B  | 120.7 | 111.1 | 618-22-SF1 |
| 4                                        | 2     | B/B  | 120.7 | 111.1 | 618-23-SF1 |
| 4                                        | 3     | B/B  | 120.7 | 111.1 | 618-24-SF1 |
| 6                                        | 3     | B/B  | 181.0 | 136.5 | 618-25-SF1 |
| 6                                        | 4     | B/B  | 181.0 | 146.1 | 618-26-SF1 |

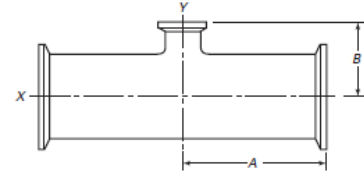


| HYGIENIC CLAMP JOINT: REDUCING TEE DT-20 |       |      |       |       |            |
|------------------------------------------|-------|------|-------|-------|------------|
| Nominal size inches                      |       | Type | A     | B     | Part#      |
| X                                        | Y     |      | in mm | in mm |            |
| 1/2                                      | 1/4   | A    | 60.3  | 25.4  | 619-1-SF1  |
| 1/2                                      | 3/8   | A    | 60.3  | 25.4  | 619-2-SF1  |
| 3/4                                      | 1/4   | A    | 63.5  | 25.4  | 619-3-SF1  |
| 3/4                                      | 1/2   | A    | 63.5  | 25.4  | 619-4-SF1  |
| 1                                        | 1/2   | B    | 66.7  | 28.6  | 619-5-SF1  |
| 1                                        | 3/4   | B    | 66.7  | 28.6  | 619-6-SF1  |
| 1 1/2                                    | 1/2   | B    | 73.0  | 34.9  | 619-7-SF1  |
| 1 1/2                                    | 3/4   | B    | 73.0  | 34.9  | 619-8-SF1  |
| 1 1/2                                    | 1     | B    | 73.0  | 34.9  | 619-9-SF1  |
| 2                                        | 1/2   | B    | 85.7  | 41.3  | 619-10-SF1 |
| 2                                        | 3/4   | B    | 85.7  | 41.3  | 619-11-SF1 |
| 2                                        | 1     | B    | 85.7  | 41.3  | 619-12-SF1 |
| 2                                        | 1 1/2 | B    | 85.7  | 41.3  | 619-13-SF1 |
| 3                                        | 1/2   | B    | 98.4  | 54.0  | 619-14-SF1 |
| 3                                        | 3/4   | B    | 98.4  | 54.0  | 619-15-SF1 |
| 3                                        | 1     | B    | 98.4  | 54.0  | 619-16-SF1 |
| 3                                        | 1 1/2 | B    | 98.4  | 54.0  | 619-17-SF1 |
| 3                                        | 2     | B    | 98.4  | 54.0  | 619-18-SF1 |
| 4                                        | 1/2   | B    | 120.7 | 66.7  | 619-19-SF1 |
| 4                                        | 3/4   | B    | 120.7 | 66.7  | 619-20-SF1 |
| 4                                        | 1     | B    | 120.7 | 66.7  | 619-21-SF1 |
| 4                                        | 1 1/2 | B    | 120.7 | 66.7  | 619-22-SF1 |
| 4                                        | 2     | B    | 120.7 | 66.7  | 619-23-SF1 |
| 4                                        | 3     | B    | 120.7 | 66.7  | 619-24-SF1 |
| 6                                        | 3     | B    | 181.0 | 92.1  | 619-25-SF1 |
| 6                                        | 4     | B    | 181.0 | 95.3  | 619-26-SF1 |

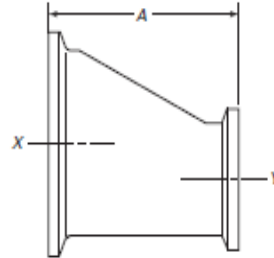


# GEI Process

| HYGIENIC CLAMP JOINT: REDUCING TEE DT-20 |       |      |       |       |            |
|------------------------------------------|-------|------|-------|-------|------------|
| Nominal size inches                      |       | Type | A     | B     | Part#      |
| X                                        | Y     |      | in mm | in mm |            |
| 1/2                                      | 1/4   | A    | 60.3  | 25.4  | 620-1-SF1  |
| 1/2                                      | 3/8   | A    | 60.3  | 25.4  | 620-2-SF1  |
| 3/4                                      | 1/4   | A    | 63.5  | 25.4  | 620-3-SF1  |
| 3/4                                      | 1/2   | A    | 63.5  | 25.4  | 620-4-SF1  |
| 1                                        | 1/2   | B    | 66.7  | 28.6  | 620-5-SF1  |
| 1                                        | 3/4   | B    | 66.7  | 28.6  | 620-6-SF1  |
| 1 1/2                                    | 1/2   | B    | 73.0  | 34.9  | 620-7-SF1  |
| 1 1/2                                    | 3/4   | B    | 73.0  | 34.9  | 620-8-SF1  |
| 1 1/2                                    | 1     | B    | 73.0  | 34.9  | 620-9-SF1  |
| 2                                        | 1/2   | B    | 85.7  | 41.3  | 620-10-SF1 |
| 2                                        | 3/4   | B    | 85.7  | 41.3  | 620-11-SF1 |
| 2                                        | 1     | B    | 85.7  | 41.3  | 620-12-SF1 |
| 2                                        | 1 1/2 | B    | 85.7  | 41.3  | 620-13-SF1 |
| 3                                        | 1/2   | B    | 98.4  | 54.0  | 620-14-SF1 |
| 3                                        | 3/4   | B    | 98.4  | 54.0  | 620-15-SF1 |
| 3                                        | 1     | B    | 98.4  | 54.0  | 620-16-SF1 |
| 3                                        | 1 1/2 | B    | 98.4  | 54.0  | 620-1-SF1  |
| 3                                        | 2     | B    | 98.4  | 54.0  | 620-2-SF1  |
| 4                                        | 1/2   | B    | 120.7 | 66.7  | 620-3-SF1  |
| 4                                        | 3/4   | B    | 120.7 | 66.7  | 620-4-SF1  |
| 4                                        | 1     | B    | 120.7 | 66.7  | 620-5-SF1  |
| 4                                        | 1 1/2 | B    | 120.7 | 66.7  | 620-6-SF1  |
| 4                                        | 2     | B    | 120.7 | 66.7  | 620-7-SF1  |
| 4                                        | 3     | B    | 120.7 | 66.7  | 620-8-SF1  |
| 6                                        | 3     | B    | 181.0 | 92.1  | 620-9-SF1  |
| 6                                        | 4     | B    | 181.0 | 95.3  | 620-10-SF1 |



| HYGENIC CLAMP JOINT-ECCENTRIC REDUCER DT 21 |       |      |       |            |
|---------------------------------------------|-------|------|-------|------------|
| Nominal size inches                         |       | Type | A     | Part#      |
| X                                           | Y     |      | in mm |            |
| 3/4                                         | 1/2   | A/A  | 50.8  | 621-1-SF1  |
| 1                                           | 1/2   | B/A  | 63.5  | 621-2-SF1  |
| 1                                           | 3/4   | B/A  | 50.8  | 621-3-SF1  |
| 1 1/2                                       | 1/2   | B/A  | 88.9  | 621-4-SF1  |
| 1 1/2                                       | 3/4   | B/A  | 76.2  | 621-5-SF1  |
| 1 1/2                                       | 1     | B/B  | 76.2  | 621-6-SF1  |
| 2                                           | 1/2   | B/A  | 139.7 | 621-7-SF1  |
| 2                                           | 3/4   | B/A  | 127.0 | 621-8-SF1  |
| 2                                           | 1     | B/B  | 127.0 | 621-9-SF1  |
| 2                                           | 1 1/2 | B/B  | 76.2  | 621-10-SF1 |
| 3                                           | 1     | B/B  | 228.6 | 621-11-SF1 |
| 3                                           | 1 1/2 | B/B  | 177.8 | 621-12-SF1 |
| 3                                           | 2     | B/B  | 127.0 | 621-13-SF1 |
| 4                                           | 1     | B/B  | 333.4 | 621-14-SF1 |
| 4                                           | 1 1/2 | B/B  | 282.6 | 621-15-SF1 |
| 4                                           | 2     | B/B  | 231.8 | 621-16-SF1 |
| 4                                           | 3     | B/B  | 130.2 | 621-1-SF1  |
| 6                                           | 3     | B/B  | 193.7 | 621-2-SF1  |
| 6                                           | 4     | B/B  | 193.7 | 621-3-SF1  |



| HYGENIC CLAMP JOINT-CONCENTRIC REDUCER DT-21 |       |      |       |            |  |
|----------------------------------------------|-------|------|-------|------------|--|
| Nominal size<br>inches                       |       | Type | A     | Part#      |  |
| X                                            | Y     |      | in mm |            |  |
| 3/4                                          | 1/2   | A/A  | 50.8  | 622-1-SF1  |  |
| 1                                            | 1/2   | B/A  | 63.5  | 622-2-SF1  |  |
| 1                                            | 3/4   | B/A  | 50.8  | 622-3-SF1  |  |
| 1 1/2                                        | 1/2   | B/A  | 88.9  | 622-4-SF1  |  |
| 1 1/2                                        | 3/4   | B/A  | 76.2  | 622-5-SF1  |  |
| 1 1/2                                        | 1     | B/B  | 76.2  | 622-6-SF1  |  |
| 2                                            | 1/2   | B/A  | 139.7 | 622-7-SF1  |  |
| 2                                            | 3/4   | B/A  | 127.0 | 622-8-SF1  |  |
| 2                                            | 1     | B/B  | 127.0 | 622-9-SF1  |  |
| 2                                            | 1 1/2 | B/B  | 76.2  | 622-10-SF1 |  |
| 3                                            | 1     | B/B  | 228.6 | 622-11-SF1 |  |
| 3                                            | 1 1/2 | B/B  | 177.8 | 622-12-SF1 |  |
| 3                                            | 2     | B/B  | 127.0 | 622-13-SF1 |  |
| 4                                            | 1     | B/B  | 333.4 | 622-14-SF1 |  |
| 4                                            | 1 1/2 | B/B  | 282.6 | 622-15-SF1 |  |
| 4                                            | 2     | B/B  | 231.8 | 622-16-SF1 |  |
| 4                                            | 3     | B/B  | 130.2 | 622-17-SF1 |  |
| 6                                            | 3     | B/B  | 193.7 | 622-18-SF1 |  |
| 6                                            | 4     | B/B  | 193.7 | 622-19-SF1 |  |

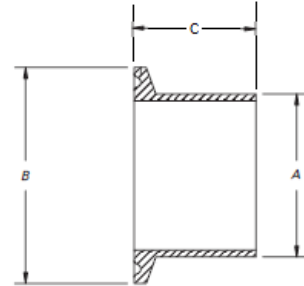
Technical drawing of a concentric reducer. It shows a side view of the reducer with a horizontal centerline. Dimension 'B' is indicated as the length of the reducer body. Dimension 'Y' is indicated as the distance from the centerline to the bottom edge of the reducer body.

| AUTOMATIC TUBE WELD-FERRULE DT-22 LARGE |      |       |       |       |            |
|-----------------------------------------|------|-------|-------|-------|------------|
| Nominal size<br>inches                  | Type | A     | B     | C     | Part#      |
|                                         |      | in mm | in mm | in mm |            |
| 1/2                                     | A    | 12.7  | 25    | 44.5  | 623-1-SF1  |
| 3/4                                     | A    | 19.05 | 25    | 44.5  | 623-2-SF1  |
| 3/4                                     | B    | 19.05 | 50.4  | 44.5  | 623-3-SF1  |
| 1                                       | B    | 25.4  | 50.4  | 44.5  | 623-4-SF1  |
| 1 1/2                                   | B    | 38.1  | 50.4  | 44.5  | 623-5-SF1  |
| 2                                       | B    | 50.8  | 63.9  | 57.2  | 623-6-SF1  |
| 2 1/2                                   | B    | 63.5  | 77.4  | 57.2  | 623-7-SF1  |
| 3                                       | B    | 76.2  | 90.9  | 57.2  | 623-8-SF1  |
| 4                                       | B    | 101.6 | 118.9 | 57.2  | 623-9-SF1  |
| 6                                       | B    | 152.4 | 166.9 | 76.2  | 623-10-SF1 |

Technical drawing of a ferrule. It shows a side view of the ferrule with a horizontal centerline. Dimension 'A' is indicated as the height of the ferrule. Dimension 'B' is indicated as the distance from the centerline to the bottom edge of the ferrule. Dimension 'C' is indicated as the length of the ferrule body.

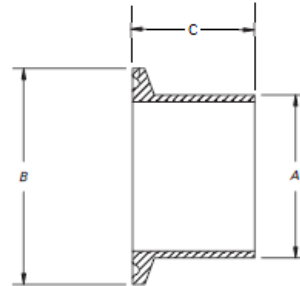
## AUTOMATIC TUBE WELD-FERRULE DT-22-MEDIUM

| Nominal size | Type | A     | B     | C     | Part#      |
|--------------|------|-------|-------|-------|------------|
| inches       |      | in mm | in mm | in mm |            |
| 1/2          | A    | 12.7  | 25    | 28.7  | 624-1-SF1  |
| 3/4          | A    | 19.05 | 25    | 28.7  | 624-2-SF1  |
| 3/4          | B    | 19.05 | 50.4  | 28.7  | 624-3-SF1  |
| 1            | B    | 25.4  | 50.4  | 28.7  | 624-4-SF1  |
| 1 1/2        | B    | 38.1  | 50.4  | 28.7  | 624-5-SF1  |
| 2            | B    | 50.8  | 63.9  | 28.7  | 624-6-SF1  |
| 2 1/2        | B    | 63.5  | 77.4  | 28.7  | 624-7-SF1  |
| 3            | B    | 76.2  | 90.9  | 28.7  | 624-8-SF1  |
| 4            | B    | 101.6 | 118.9 | 28.7  | 624-9-SF1  |
| 6            | B    | 152.4 | 166.9 | 38.1  | 624-10-SF1 |



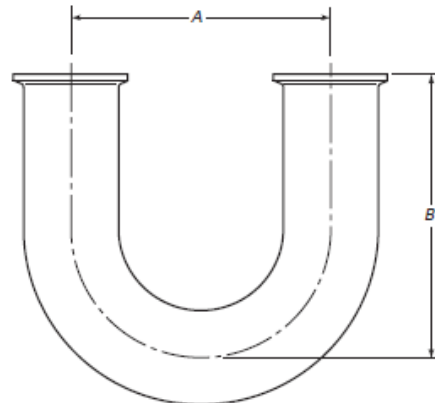
## AUTOMATIC TUBE WELD-FERRULE DT-22-SHORT

| Nominal size | Type | A     | B     | C     | Part#      |
|--------------|------|-------|-------|-------|------------|
| inches       |      | in mm | in mm | in mm |            |
| 1/2          | A    | 12.7  | 25    | 12.7  | 625-1-SF1  |
| 3/4          | A    | 19.05 | 25    | 12.7  | 625-2-SF1  |
| 3/4          | B    | 19.05 | 50.4  | 12.7  | 625-3-SF1  |
| 1            | B    | 25.4  | 50.4  | 12.7  | 625-4-SF1  |
| 1 1/2        | B    | 38.1  | 50.4  | 12.7  | 625-5-SF1  |
| 2            | B    | 50.8  | 63.9  | 12.7  | 625-6-SF1  |
| 2 1/2        | B    | 63.5  | 77.4  | 12.7  | 625-7-SF1  |
| 3            | B    | 76.2  | 90.9  | 12.7  | 625-8-SF1  |
| 4            | B    | 101.6 | 118.9 | 15.9  | 625-9-SF1  |
| 6            | B    | 152.4 | 166.9 | 19.1  | 625-10-SF1 |



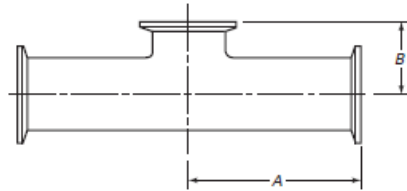
## 180 deg RETURN BEND DT-23

| Nominal size | A     | B     | Part#     |
|--------------|-------|-------|-----------|
| inches       | in mm | in mm |           |
| 1/2          | 114.3 | 76.2  | 626-1-SF1 |
| 3/4          | 114.3 | 76.2  | 626-2-SF1 |
| 1            | 76.2  | 76.2  | 626-3-SF1 |
| 1 1/2        | 114.3 | 114.3 | 626-4-SF1 |
| 2            | 152.4 | 127.0 | 626-5-SF1 |
| 2 1/2"       | 190.5 | 146.1 | 626-6-SF1 |
| 3            | 228.6 | 165.1 | 626-7-SF1 |
| 4            | 304.8 | 215.9 | 626-8-SF1 |
| 6            | 457.2 | 292.1 | 626-9-SF1 |



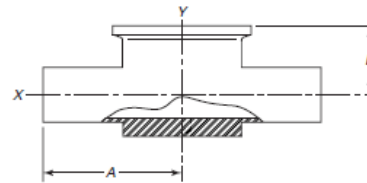
## HYGIENIC CLAMP JOINT SHORT OUTLET REDUCING TEE DT-27

| Nominal size<br>inches | Type | A     | B     | Part#     |
|------------------------|------|-------|-------|-----------|
| X                      |      | in mm | in mm |           |
| 1/2                    | A    | 57.2  | 25.4  | 627-1-SF1 |
| 3/4                    | A    | 60.3  | 28.6  | 627-2-SF1 |
| 1                      | B    | 66.7  | 28.6  | 627-3-SF1 |
| 1 1/2                  | B    | 73.0  | 34.9  | 627-4-SF1 |
| 2                      | B    | 85.7  | 41.3  | 627-5-SF1 |
| 3                      | B    | 98.4  | 54.0  | 627-6-SF1 |
| 4                      | B    | 120.7 | 69.9  | 627-7-SF1 |
| 6                      | B    | 181.0 | 117.5 | 627-8-SF1 |



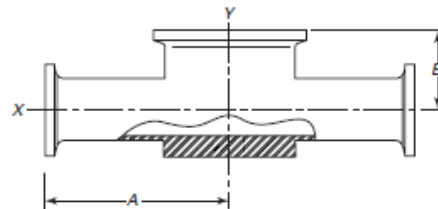
## INSTRUMENT TEE DT-28

| Nominal size<br>inches |       | A     | B     | Part#     |
|------------------------|-------|-------|-------|-----------|
| X                      | Y     | in mm | in mm |           |
| 1/2                    | 1 1/2 | 63.5  | 22.2  | 628-1-SF1 |
| 3/4                    | 1 1/2 | 63.5  | 25.4  | 628-2-SF1 |
| 1                      | 1 1/2 | 63.5  | 28.6  | 628-3-SF1 |
| 1/2                    | 2     | 69.9  | 25.4  | 628-4-SF1 |
| 3/4                    | 2     | 69.9  | 28.6  | 628-5-SF1 |
| 1                      | 2     | 69.9  | 31.8  | 628-6-SF1 |
| 1 1/2                  | 2     | 69.9  | 38.1  | 628-7-SF1 |



## HYGEINIC CLAMP JOINT INSTRUMENT TEE DT-29

| Nominal size<br>inches |       | A     | B     | Part#     |
|------------------------|-------|-------|-------|-----------|
| X                      | Y     | in mm | in mm |           |
| 1/2                    | 1 1/2 | 76.2  | 22.2  | 629-1-SF1 |
| 3/4                    | 1 1/2 | 76.2  | 25.4  | 629-2-SF1 |
| 1                      | 1 1/2 | 76.2  | 28.6  | 629-3-SF1 |
| 1/2                    | 2     | 82.6  | 25.4  | 629-4-SF1 |
| 3/4                    | 2     | 82.6  | 28.6  | 629-5-SF1 |
| 1                      | 2     | 82.6  | 31.8  | 629-6-SF1 |
| 1 1/2                  | 2     | 82.6  | 38.1  | 629-7-SF1 |



Filename: 600\_629\_ASME\_BPE\_Fittings  
Directory: C:\Users\user\Documents  
Template: C:\Users\user\AppData\Roaming\Microsoft\Templates\Normal.dot  
m  
Title:  
Subject:  
Author: user  
Keywords:  
Comments:  
Creation Date: 18-01-2014 23:17:00  
Change Number: 2  
Last Saved On: 18-01-2014 23:17:00  
Last Saved By: user  
Total Editing Time: 41 Minutes  
Last Printed On: 04-07-2014 12:59:00  
As of Last Complete Printing  
Number of Pages: 16  
Number of Words: 2,107 (approx.)  
Number of Characters: 12,012 (approx.)