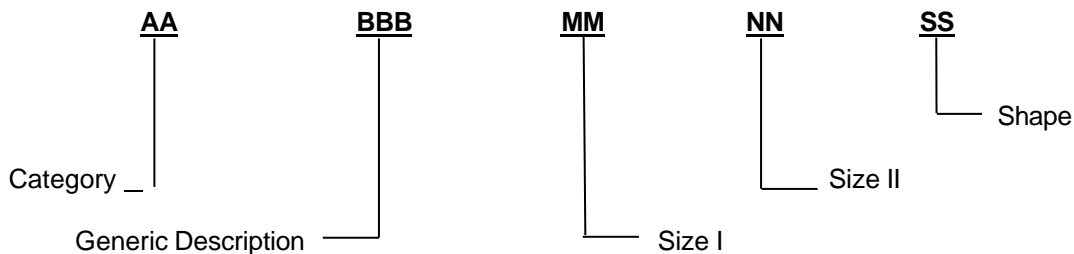




## Commodity Codes Structure

- 1.0 All parts (commodities) having different materials, sizes and shapes are given an eleven (11) character (alpha-numeric) descriptive code which makes them unique. The eleven (11) character code is divided into two distinct segments:
- 1.1 **Standard Code** - The first five (5) characters of the code contain the two (2) character category designation and the three (3) character generic description. This segment of the commodity code shall be listed in the Covestro Catalog with the long description of the commodity item, and it shall be part of the BTS standards and/or specifications prepared for a particular project. It is commonly referred to as the "Spec Number".
- 1.2 **Size I/Size II/Shape Code** - The last six (6) characters of the code contain the two (2) character size I designation, the two (2) character size II designation, and the two (2) character shape designation. These codes, equivalent in English or Metric units, shall be designated by alpha-numeric numbers.
- 1.3 **Code Format** - The code format is:



**Category (AA)** – Two-digit number that defines the commodities into broad general part groupings, e.g. 01-Pipe, 05-Gate Valve, 42-Tube Fitting, etc. See Table I for a listing of the category numbers.

**Generic Description (BBB)** – Three-digit number provides further breakdown within a particular category. It contains the item’s name, fabrication material(s), connections, schedule, etc. This designation is assigned by the BTS Mechanical Specialist for each description listed in the Covestro Catalog.

**Size I (MM)** - Provides sizing information for items such as pipe, union, nuts, wire, etc., where only one size is required. Fractions are assigned as alphabetic letters (1/2” = XH, 1/4” = XD) and whole numbers as whole numbers (2” = 2X, 12” = 12). See Table III for the sizing designations. Note: The letter “X” denotes a blank space.

**Size II (NN)** - Completes the sizing information for items such as pipe reducers, swages, explosion proof coupling, bolts, o-lets, etc., where two sizes are required. See Table III for the sizing designations.



**Shape (SS)** - The shape of an item may vary within a category and must be designated to complete the total description. The categories requiring shape designation are 02-Fittings, 05-Gate Valve, 06-Globe Valve, 08-Needle Valve, 09-Plug Valve, 10-Diaphragm Valve, 11-Butterfly Valve, 12-Special Valve, 13-Ball Valve, 19-Gaskets, 42-Tube Fitting, 43-Tube Track, 55-Conduit Fitting, 57-Terminal and 61-Underground Fittings. See Table IV for the shape designations.

1.4 The size and shape designations required for each category is in Table II.



**CODE EXAMPLES:**

**Example 1 - Use of Size I (MM) Designation**

A new check valve has been assigned a spec number of 07801. You now need the full commodity identification code for 1", 1-1/2" and 3" valves.

- a) Refer to Sizing Table III. The size designations are:

1" = 1X          1-1/2" = 1H          3" = 3X

- b) Since only one size is required to completely describe a check valve, and the shape designation is not required, the size II (NN) and shape (SS) designations are listed as X's.

- c) The commodity identification codes are:

1" valve	07801	1X	XXXX
1-1/2" valve	07801	1H	XXXX
3" valve	07801	3X	XXXX

**Example 2 - Use of Shape (SS) Designation**

A commodity identification code is needed for a 2" diameter long radius, 90°, carbon steel elbow conforming to spec number 02001 (Pipe Fitting).

- a) The first five characters of the commodity identification code are furnished. Therefore, the code is:

02001 MM NN SS

- b) Referring to the Sizing Table III, 2" is designated as 2X. This is inserted in the size I (MM) designation giving:

02001 2X NN SS

- c) Since only one size is needed to completely describe this fitting, size II (NN) is entered as X's giving:

02001 2X XX SS

- d) Referring to the Shape Table IV, the designation for a long radius 90° elbow is LA giving the complete commodity identification code:

02001 2X XX LA

**Example 3 - Use of Size II (NN) Designation**

A commodity identification code is needed for a 3" x 2" concentric carbon steel reducer conforming to spec number 02001 (Pipe Fitting).

- a) The first five characters of the commodity identification code are furnished. Therefore, the code is:

02001 MM NN SS

- b) Since a reducer requires two different sizes (large end x small end) for a complete description, both size I and size II designations shall be used. Refer to the Sizing Table III, 3" is designated 3X and 2" as 2X, therefore, the identification code becomes:

02001 3X 2X SS

- c) Referring to the Shape Table IV, the designation for a concentric reducer is RA. This gives a complete commodity identification code of:

02001 3X 2X RA

**1.5 Generic Code** - A generic commodity code (no size and shape specific) was created for each 5-digit spec number. This generic code is used for piping project booklets, engineering reports, and manufacturer's updating. The code consists of standard 5-digit code with Size I (YY), Size II (YY) and Shape (YY).

**Example 1 – Generic Commodity Code**

- a) A generic commodity code is required for 09136 plug valve for size range ½" to 12".

09136YYYYYY



<b>I. Categories</b>					
<b>Code</b>	<b>Title</b>	<b>Code</b>	<b>Title</b>	<b>Code</b>	<b>Title</b>
<b>01</b>	Pipe	<b>27</b>	Line Blind	<b>56</b>	Grounding Hardware
<b>02</b>	Fittings	<b>28</b>		<b>57</b>	Terminal
<b>03</b>	Union	<b>29</b>	Piping Specialties	<b>58</b>	Wire
<b>04</b>	Flange	<b>30</b>	Spacer	<b>59</b>	Gauges
<b>05</b>	Gate Valve	<b>31</b>	Insulation Material	<b>60</b>	Underground Pipe
<b>06</b>	Globe Valve	<b>32</b>	Nut	<b>61</b>	Underground Fittings
<b>07</b>	Check Valve	<b>34</b>	Pipe Coupler	<b>62</b>	U/G Pipe Joint Material
<b>08</b>	Needle Valve	<b>35</b>	Hose Coupling	<b>63</b>	Hangers & Supports
<b>09</b>	Plug Valve	<b>37</b>	Manual Valve Operator	<b>65</b>	Plastic Pipe Cement
<b>10</b>	Diaphragm Valve	<b>38</b>	O-let	<b>66</b>	Bolt Thread Lubricant
<b>11</b>	Butterfly Valve	<b>41</b>	Tubing	<b>67</b>	Washer
<b>12</b>	Special Valve	<b>42</b>	Tube Fitting	<b>68</b>	Drain
<b>13</b>	Ball Valve	<b>43</b>	Raceway	<b>70</b>	Site Preparation
<b>14</b>	Steam Trap	<b>44</b>	Cable	<b>71</b>	Railroad Material
<b>15</b>	Strainer	<b>45</b>	Instrument Valve	<b>72</b>	Fencing Material
<b>17</b>	Hose	<b>46</b>	Instrument Regulator	<b>73</b>	Concrete Components
<b>18</b>	Expansion Joint	<b>47</b>	Instrument Purge Meter	<b>74</b>	Masonry Material
<b>19</b>	Gaskets	<b>48</b>	Relay	<b>75</b>	Structural Material
<b>20</b>	Pipe Thread Comp	<b>49</b>	Heat Tracing	<b>76</b>	Roofing Material
<b>21</b>	Fastener	<b>50</b>	Junction Box	<b>77</b>	Caulking & Sealants
<b>22</b>	Sight Flow Ind.	<b>51</b>	Control Station	<b>82</b>	Ceiling Components
<b>23</b>	Plumbing Fixtures	<b>52</b>	Light Fixture	<b>83</b>	Painting & Protective Coatings
<b>24</b>	Fire Protection	<b>53</b>	PCS Miscellaneous	<b>88</b>	Special Fabrication
<b>25</b>	Safety Item	<b>54</b>	Conduit	<b>92</b>	Welding Supplies
<b>26</b>	Spray Nozzles	<b>55</b>	Conduit Fitting	<b>97</b>	Lubricants



<b>II. Commodity Categories</b>	
<b>Code</b>	<b>Title</b>
01 Pipe	Size 1 + Size 2
02 Fittings	Size 1 + Size 2 + Shape
03 Union	Size 1
04 Flange	Size 1 + Size 2
05 Gate Valve	Size 1 + Shape
06 Globe Valve	Size 1 + Shape
07 Check Valve	Size 1
08 Needle Valve	Size 1 + Shape
09 Plug Valve	Size 1 + Shape
10 Diaphragm Valve	Size 1 + Shape
11 Butterfly Valve	Size 1 + Shape
12 Special Valve	Size 1 + Shape
13 Ball Valve	Size 1 + Shape
14 Steam Trap	Size 1
15 Strainer	Size 1
17 Hose	Size 1 + Size 2
18 Expansion Joint	Size 1
19 Gaskets	Size 1 + Shape
20 Pipe Thread Compound	Size 1
21 Fastener	Size 1 + Size 2
22 Sight Flow Indicator	Size 1 + Size 2
23 Plumbing Fixtures	Size 1
24 Fire Protection	Size 1
25 Safety Item	Size 1
26 Spray Nozzle	Size 1
27 Line Blind	Size 1 + Size 2
29 Piping Specialties	Size 1 + Size 2
30 Spacer	Size 1 + Size 2
31 Insulation Material	Size 1 + Size 2
32 Nut	Size 1 + Size 2
34 Pipe Coupler	Size 1 + Size 2
35 Hose Coupling	Size 1 + Size 2
37 Manual Valve Operator	Size 1 + Size 2

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<b>II. Commodity Categories</b>	
<b>Code</b>	<b>Title</b>
38 O-let	Size 1 + Size 2
41 Tubing	Size 1 + Size 2
42 Tube Fitting	Size 1 + Size 2 + Shape
43 Raceway	Size 1 + Size 2 + Shape
44 Cable	Size 1 + Size 2
45 Instrument Valve	Size 1
46 Instrument Regulator	Size 1
47 Instrument Purge Meter	Size 1
48 Relay	Size 1
49 Heat Tracing	Size 1 + Size 2
50 Junction Box	Size 1 + Size 2
51 Control Station	Size 1
52 Light Fixture	Size 1
53 PCS Miscellaneous	Size 1
54 Conduit	Size 1 + Size 2
55 Conduit Fitting	Size 1 + Size 2 + Shape
56 Grounding Hardware	Size 1 + Size 2
57 Terminal	Size 1
58 Wire	Size 1
59 Gauges	Size 1 + Shape
60 Underground Pipe	Size 1 + Size 2
61 Underground Fittings	Size 1 + Size 2 + Shape
62 U/G Pipe Joint Material	Size 1
63 Hangers and Supports	Size 1 + Size 2
65 Plastic Pipe Cement	Size 1
66 Bolt Thread Lubricant	Size 1
67 Washer	Size 1 + Size 2
68 Drain	Size 1 + Size 2
70 Site Preparation	Size 1 + Size 2
71 Railroad Material	Size 1
72 Fencing Material	Size 1
73 Concrete Components	Size 1

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<b>II. Commodity Categories</b>	
<b>Code</b>	<b>Title</b>
74	Masonry Material Size 1
75	Structural Material Size 1 + Size 2
76	Roofing Material Size 1 + Size 2
77	Caulking & Sealants Size 1
78	Architectural Materials Size 1
79	Window Components Size 1
80	Door Components Size 1
81	Floor Coverings Size 1
82	Ceiling Components Size 1
83	Painting & Prot. Coatings Size 1
84	Lumber Size 1 + Size 2
85	*HC-Pipe, Tubing & Fittings Size 1 + Size 2 + Shape
86	*HC-Flg, Clamp & Gasket Size 1 + Size 2 + Shape
87	*HC-Valves Size 1 + Shape
88	Special Fabrication Size 1 + Size 2 + Shape
92	Welding Supplies Size 1
93	Bottle Gas Size 1
95	Tools Expendable Size 1 + Size 2
97	Lubricants Size 1
98	Janitorial Supplies Size 1
99	Office Supplies Size 1





<b>III. Covestro Catalog Size Table</b>		
<b>Code</b>	<b>English/Metric</b>	<b>Decimal</b>
AA	1/64"	0.016
AB	2/64"	0.031
AC	3/64"	0.047
AD	5/64"	0.078
AE	3/32"	0.094
AF	7/64"	0.109
AG	9/64"	0.141
AH	5/32"	0.156
AJ	11/64"	0.172
AK	13/34"	0.203
AM	14/64"	0.219
AN	15/64"	0.234
AP	17/64"	0.266
AQ	18/64"	0.281
AR	19/64"	0.297
AS	21/64"	0.328
AT	22/64"	0.344
AU	23/64"	0.359
AV	25/64"	0.391
AW	26/64"	0.406
AZ	27/64"	0.422
A1	1 OZ	1.000
A2	2 OZ	2.000
A3	3 OZ	3.000
A4	4 OZ	4.000
A5	5 OZ	5.000
A6	6 OZ	6.000
A7	7 OZ	7.000
A8	8 OZ	8.000
A9	9 OZ	9.000
BA	29/64"	0.453
BB	30/64"	0.469

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<b>III. Covestro Catalog Size Table</b>		
<b>Code</b>	<b>English/Metric</b>	<b>Decimal</b>
BC	31/64"	0.484
BD	33/64"	0.516
BE	34/64"	0.531
BF	35/64"	0.547
BG	37/64"	0.578
BH	38/64"	0.594
BJ	39/64"	0.609
BK	41/64"	0.641
BM	42/64"	0.656
BN	43/64"	0.672
BO	20 OZ	--
BP	45/64"	7.703
BQ	46/64"	0.719
BR	47/64"	0.734
BS	49/64"	0.766
BT	50/64"	0.781
BU	51/64"	0.797
BV	53/64"	0.828
BW	54/64"	0.844
BZ	55/64"	0.859
B1	1 LB	1.000
B2	2 LB	2.000
B3	3 LB	3.000
B4	4 LB	4.000
B5	5 LB	5.000
B6	6 LB	6.000
B7	7 LB	7.000
B8	8 LB	8.000
B9	9 LB	9.000
CA	57/64"	0.890
CB	58/64"	0.906

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<b>III. Covestro Catalog Size Table</b>		
<b>Code</b>	<b>English/Metric</b>	<b>Decimal</b>
CC	59/64"	0.922
CD	61/64"	0.953
CE	62/64"	0.969
CF	63/64"	0.984
CG	1.5MM	1.500
CH	1.6MM	1.600
CJ	1.83MM	1.830
CK	1.98MM	1.980
CL	2.2MM	2.200
CM	2.4MM	2.400
CN	2.46MM	2.460
CO	10-1/4"	--
CP	2.5MM	2.500
CQ	2.8MM	2.800
CR	2.9MM	2.900
CS	2.95MM	2.950
CT	3.53MM	3.530
CU	3.56MM	3.560
CV	4.5MM	4.500
CW	5.7MM	5.700
CX	6.5MM	6.500
CY	8.1MM	8.100
CZ	8.92MM	8.920
C1	10 LB	10.000
C2	14 OZ	14.000
C3	1 PT	1.000
C4	1 QT	1.000
C5	1 GAL	1.000
C6	½ PT	0.500

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<b>III. Covestro Catalog Size Table</b>		
<b>Code</b>	<b>English/Metric</b>	<b>Decimal</b>
C7	5 GAL	5.000
C8	11.5"	11.500
C9	10.5"	10.500
DA	9.3MM	9.300
DB	11MM	11.000
DC	11.3MM	11.300
DD	11.9MM	11.900
DE	12.5MM	12.500
DF	13MM	13.000
DG	13.3MM	13.300
DH	15.3MM	15.300
DJ	16.3MM	16.300
DK	16.36MM	16.360
DL	18.64MM	18.640
DM	19.18MM	19.180
DN	19.3MM	19.300
DP	23.4MM	23.400
DQ	23.47MM	23.470
DR	23.6MM	23.600
DS	25.3MM	25.300
DT	26MM	26.000
DU	29.2MM	29.200
DV	29.6MM	29.600
DW	29.74MM	29.740
DX	31MM	31.000
DY	32MM	32.000
DZ	32.92MM	32.920
D0	40W	--
D1	50W	--
D2	60W	60.000
D3	70W	70.000
D4	75W	75.000
D5	100W	100.000

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<b>III. Covestro Catalog Size Table</b>		
<b>Code</b>	<b>English/Metric</b>	<b>Decimal</b>
D6	150W	150.000
D7	175W	175.000
D8	250W	250.000
D9	400W	400.000
EA	33MM	33.000
EB	33.3MM	33.300
EC	34.2MM	34.200
ED	34.5MM	34.500
EE	37.46MM	37.460
EF	37.7MM	37.700
EG	38.6MM	38.600
EH	41MM	41.000
EJ	41.2MM	41.200
EK	44.2MM	44.200
EL	44.6MM	44.600
EM	46MM	46.000
EN	47.22MM	47.220
EP	56.76MM	56.760
EQ	33.5MM	33.500
ER	40.5MM	40.500
ES	47MM	47.000
ET	53MM	53.000
EU	57MM	57.000
EV	64MM	64.000
EW	20.3MM	20.300
EX	21.2MM	21.200
EY	22.7MM	22.700
EZ	7MM	7.000
E1	144"	144.000
E2	180"	180.000
E3	54'	54.000
E4	66'	66.000
E5	25'	25.000

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<b>III. Covestro Catalog Size Table</b>		
<b>Code</b>	<b>English/Metric</b>	<b>Decimal</b>
E6	10'	10.000
E7	15'	15.000
E8	180'	180.000
E9	288"	288.000
FA	9MM	9.000
FB	19MM	19.000
FC	24MM	24.000
FD	5MM	5.000
FE	3.5MM	3.500
FF	21MM	21.000
FG	23MM	23.000
FH	27MM	27.000
FI	10MM	--
FJ	39MM	39.000
FK	49MM	49.000
FL	55MM	55.000
FM	8.4MM	8.400
FN	9.8MM	9.800
FP	11.6MM	11.600
FQ	13.8MM	13.800
FR	14.7MM	14.700
FS	15.7MM	15.700
FT	17.8MM	17.800
FU	18.5MM	18.500
FV	19.6MM	19.600
FW	23.9MM	23.900
FX	29.7MM	29.700
FY	38.8MM	38.800
FZ	44.7MM	44.700
F1	108"	--
F2	120"	--
F3	240"	--
F4	360"	--

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<b>III. Covestro Catalog Size Table</b>		
<b>Code</b>	<b>English/Metric</b>	<b>Decimal</b>
F5	480"	--
F6	600"	--
F7	720"	--
F8	840"	--
F9	960"	--
G0	10W	10.000
G1	64-1/4"	--
G2	63-1/4"	--
G3	3W	3.000
G4	4W	4.000
G5	5W	5.000
G6	6W	6.000
G7	7W	7.000
G8	8W	8.000
G9	9W	9.000
H1	15W	15.000
H2	20W	20.000
H3	100'	100.000
H4	200'	200.000
H5	300'	300.000
H6	500'	500.000
H7	250'	250.000
H8	50'	50.000
H9	150'	150.000
J1	17.75"	17.750
J2	33.5"	33.500
J3	12W	12.000
J4	11'	11.000
J5	12.5"	12.500
J6	7.25W	--
J7	¼ PT	--
J8	18'	--
J9	23'	--

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<b>III. Covestro Catalog Size Table</b>		
<b>Code</b>	<b>English/Metric</b>	<b>Decimal</b>
JA	11 5/8"	--
JB	12 1/4"	--
JC	12 1/2"	--
JD	13 1/4"	--
JE	13 3/4"	--
JF	14 1/2"	--
JG	15 1/4"	--
JH	15 3/4"	--
JJ	19 1/4"	--
KA	G1/8A	--
KB	G1/4A	--
KC	G3/8A	--
KD	G1/2A	--
KE	G3/4A	--
KF	G1A	--
KG	G1-1/4A	--
KH	G1-1/2A	--
KJ	G1/4	--
KK	G1/2	--
KL	35'	--
K1	14'	14.000
K2	16'	16.000
K3	800'	800.000
K4	40 LB	40.000
K5	75'	75.000
K6	100'	100.000
K7	500'	500.000
K8	190'	190.000
K9	120'	120.000
L0	6.4 OZ	--
L1	14.1 OZ	14.100
L2	1.69 OZ	1.690
L3	8.45 OZ	8.450

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<b>III. Covestro Catalog Size Table</b>		
<b>Code</b>	<b>English/Metric</b>	<b>Decimal</b>
L4	38MM	38.000
L5	42MM	42.000
L6	M10 x 1	--
L7	M8 x 1	--
L8	14.75"	--
L9	9.3 OZ	--
M1	1MM	1.000
M2	2MM	2.000
M3	3MM	3.000
M4	4MM	4.000
M5	6MM	6.000
M6	8MM	8.000
M8	10MM	10.000
M9	12MM	12.000
N1	14MM	14.000
N2	15MM	15.000
N3	16MM	16.000
N4	17MM	17.000
N5	18MM	18.000
N6	20MM	20.000
N7	22MM	22.000
N8	25MM	25.000
N9	40MM	40.000
P1	50MM	50.000
P2	80MM	80.000
P3	90MM	90.000
P4	100MM	100.000
P5	125MM	125.000
P6	150MM	150.000
P7	175MM	175.000
P8	200MM	200.000
P9	225MM	225.000
QA	0.156-0.250	0.156

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<b>III. Covestro Catalog Size Table</b>		
<b>Code</b>	<b>English/Metric</b>	<b>Decimal</b>
Q1	300MM	300.000
Q2	400MM	400.000
Q3	450MM	450.000
Q4	500MM	500.000
Q5	600MM	600.000
Q6	700MM	700.000
Q7	800MM	800.000
Q8	1000MM	1000.000
Q9	1500MM	1500.000
RA	0.125-0.187	0.125
RB	0.187-0.312	0.187
RC	0.312-0.437	0.312
RD	0.125-0.250	0.125
RE	0.250-0.375	0.250
RF	0.375-0.500	0.375
RG	0.500-0.625	0.500
RH	0.625-0.750	0.625
RJ	0.750-0.875	0.750
RK	0.875-1.000	0.875
RL	1.000-1.125	1.000
RM	1.125-1.250	1.125
RN	1.250-1.375	1.250
RO	350MM	--
RP	1.375-1.500	1.375
RQ	1.156-1.312	1.156
RR	1.281-1.531	1.281
RS	1.531-1.780	1.531
RT	1.650-2.000	1.650
RU	1.188-1.375	1.188
RV	1.375-1.625	1.375
RW	1.625-1.875	1.625
RZ	1.875-2.188	1.875
R1	2000MM	2000.00

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<b>III. Covestro Catalog Size Table</b>		
<b>Code</b>	<b>English/Metric</b>	<b>Decimal</b>
R2	3000MM	300.000
R3	M14 x 1.5	--
R4	M12 x 1.5	--
R5	28MM	28.000
R6	30MM	30.000
R7	250MM	250.000
R8	360MM	360.000
R9	35MM	35.000
S0	2/0 GRIT	2.000
S1	4/0 GRIT	4.000
S2	R1/8 KEG	--
S3	R1/4 KEG	--
S4	R3/8 KEG	--
S5	R1/2 KEG	--
S6	R3/4 KEG	--
S7	M6 x1 KEG	--
S8	M8 x 1 KEG	--
S9	M10 x 1 KEG	--
SA	M16 x 1.5	--
SB	M18 x 1.5	--
SC	M20 x 1.5	--
SD	M22 x 1.5	--
SE	M26 x 1.5	--
SF	M27 x 2	--
SG	M33 x 2	--
SH	M42 x 2	--
SJ	M48 x 2	--
SK	M12 x 1.5 KEG	--
SL	M14 x 1.5 KEG	--
SM	M16 x 1.5 KEG	--
SN	M18 x 1.5 KEG	--
SP	M22 x 1.5 KEG	--
SQ	M20 x 1.5 KEG	--

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<b>III. Covestro Catalog Size Table</b>		
<b>Code</b>	<b>English/Metric</b>	<b>Decimal</b>
SR	M24 x 1.5	--
SS	30 x 2	--
ST	M35 x 2	--
SU	M45 x 2	--
SV	M52 x 2	--
SW	M38 x 2	--
T0	24 GRIT	24.000
T1	36 GRIT	36.000
S0	2/0 GRIT	2.000
S1	4/0 GRIT	4.000
S2	R1/8 KEG	--
S3	R1/4 KEG	--
S4	R3/8 KEG	--
S5	R1/2 KEG	--
S6	R3/4 KEG	--
S7	M6 x1 KEG	--
S8	M8 x 1 KEG	--
S9	M10 x 1 KEG	--
SA	M16 x 1.5	--
SB	M18 x 1.5	--
SC	M20 x 1.5	--
SD	M22 x 1.5	--
SE	M26 x 1.5	--
SF	M27 x 2	--
SG	M33 x 2	--
SH	M42 x 2	--
SJ	M48 x 2	--
SK	M12 x 1.5 KEG	--
SL	M14 x 1.5 KEG	--
SM	M16 x 1.5 KEG	--
SN	M18 x 1.5 KEG	--
SP	M22 x 1.5 KEG	--
SQ	M20 x 1.5 KEG	--

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<b>III. Covestro Catalog Size Table</b>		
<b><i>Code</i></b>	<b><i>English/Metric</i></b>	<b><i>Decimal</i></b>
SR	M24 x 1.5	--
SS	30 x 2	--
ST	M35 x 2	--
SU	M45 x 2	--
SV	M52 x 2	--
SW	M38 x 2	--
T0	24 GRIT	24.000
T1	36 GRIT	36.000
T2	50 GRIT	50.000
T3	60 GRIT	60.000
T4	80 GRIT	80.000
T5	120 GRIT	120.000
T6	150 GRIT	150.000
T8	240 GRIT	240.000
T9	400 GRIT	400.000
U0	20	20.000
U1	15	--
U2	22	22.000
U3	30	--
U4	75	--
U5	125	--
U6	175	--
U7	100	--
U8	42	--
V0	10	10.000
V1	24	--
V2	12	12.000
V3	32	--
V4	14	14.000
V5	45	--
V6	16	16.000
V7	90	--
V8	18	18.000

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<b>III. Covestro Catalog Size Table</b>		
<b>Code</b>	<b>English/Metric</b>	<b>Decimal</b>
V9	63	--
W1	1	1.000
W2	2	2.000
W3	3	3.000
W4	4	4.000
W6	6	6.000
W8	8	8.000
XA	1/16"	0.063"
XB	1/8"	0.125"
XC	3/16"	0.188
XD	1/4"	0.25
XE	5/16"	0.313
XF	3/8"	0.375"
XG	7/16"	0.438
XH	1/2"	0.500
XJ	9/16"	0.563
XK	5/8"	0.625
XL	11/16"	0.688
XM	3/4"	0.750
XN	13/16"	0.813
XP	7/8"	0.875
XQ	16/16"	0.938
XX	NULL	--
X0	0	--
X1	#1	1.000
X2	#2	2.000
X3	#3	3.000
X4	#4	4.000
X5	#5	5.000
X6	#6	6.000
X7	#7	7.000
X8	#8	8.000
X9	#9	9.000

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<b>III. Covestro Catalog Size Table</b>		
<b>Code</b>	<b>English/Metric</b>	<b>Decimal</b>
Y1	115	--
Y2	250	250.000
Y3	150	--
Y4	200	--
Y5	500	500
Y6	300	--
Y7	750	750.000
Z1	1/0	1.000
Z2	2/0	2.000
Z3	3/0	3.000
Z4	4/0	4.000
Z6	#11	11.000
Z7	#14	14.000
Z8	#10	10.000
Z9	#12	12.000
1A	1-1/16"	1.063
1B	1-1/8"	1.125
1C	1-3/16"	1.188
1D	1-1/4"	1.250
1E	1-5/16"	1.313
1F	1-3/8"	1.375
1G	1-7/16"	1.438
1H	1-1/2"	1.500
1J	1-9/16"	1.563
1K	1-5/8"	1.625
1L	1-11/16"	1.688
1M	1-3/4"	1.750
1P	1-7/8"	1.875
1Q	1-15/16"	1.938
1X	1"	1.000
10	10"	10.000
11	11"	11.000
12	12"	12.000

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<b>III. Covestro Catalog Size Table</b>		
<b>Code</b>	<b>English/Metric</b>	<b>Decimal</b>
13	13"	13.000
14	14"	14.000
15	15"	15.000
16	16"	16.000
17	17"	17.000
18	18"	18.000
19	19"	19.000
2A	2-1/16"	20.630
2B	2-1/8"	2.125
2C	2-3/16"	2.188
2D	2-1/4"	2.250
2E	2-5/16"	2.313
2F	2-3/8"	2.375
2H	2-1/2"	2.500
2J	2-9/16"	2.563
2K	2-5/8"	2.625
2M	2-3/4"	2.750
2P	2-7/8"	2.875
2X	2"	2.000
20	20"	20.000
21	21"	21.000
22	22"	22.000
23	23"	23.000
24	24"	24.000
25	25"	25.000
26	26"	26.000
27	27"	27.000
28	28"	28.000
29	29"	29.000
3A	3-1/16"	3.063
3B	3-1/8"	3.125
3C	3-3/16"	3.188
3D	3-1/4"	3.250

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<b>III. Covestro Catalog Size Table</b>		
<b>Code</b>	<b>English/Metric</b>	<b>Decimal</b>
3F	3-3/8"	3.375
3H	3-1/2"	3.500
3K	3-5/8"	3.625
3M	3-3/4"	3.750
3N	3-13/16"	3.813
3P	3-7/8"	3.875
3Q	3-15/16"	3.938
3X	3"	3.000
30	30"	30.000
31	31"	31.000
32	32"	32.000
33	33"	33.000
34	34"	34.000
35	35"	35.000
36	36"	36.000
37	37"	37.000
38	38"	38.000
39	39"	39.000
4A	4-1/16"	4.063
4B	4-1/8"	4.125
4C	4-3/16"	4.188
4D	4-1/4"	4.250
4G	4-7/16"	4.438
4H	4-1/2"	4.500
4K	4-5/8"	4.625
4M	4-3/4"	4.750
4N	4-13/16"	4.813
4P	4-7/8"	4.875
4X	4"	4.000
40	40"	40.000
41	41"	41.000
42	42"	42.000
43	43"	43.000

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<b>III. Covestro Catalog Size Table</b>		
<b>Code</b>	<b>English/Metric</b>	<b>Decimal</b>
44	44"	44.000
45	45"	45.000
46	46"	46.000
47	47"	47.000
48	48"	48.000
49	49"	49.000
5C	5-3/16"	5.188
5D	5-1/4"	5.250
5H	5-1/2"	5.500
5K	5-5/8"	5.625
5M	5-3/4"	5.750
5X	5"	5.000
50	50"	50.000
51	51"	51.000
52	52"	52.000
53	53"	53.000
54	54"	54.000
55	55"	55.000
56	56"	56.000
57	57"	57.000
58	58"	58.000
59	59"	59.000
6D	6-1/4"	6.250
6H	6-1/2"	6.500
6K	6-5/8"	6.625
6M	6-3/4"	6.750
6P	6-7/8"	6.875
6X	6"	6.000
60	60"	60.000
61	61"	61.000
62	62"	62.000
63	63"	63.000
64	64"	64.000

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<b>III. Covestro Catalog Size Table</b>		
<b>Code</b>	<b>English/Metric</b>	<b>Decimal</b>
65	65"	65.000
66	66"	66.000
67	67"	67.000
68	68"	68.000
69	69"	69.000
7D	7-1/4"	7.250
7F	7-3/8"	7.375
7H	7-1/2"	7.500
7M	7-3/4"	7.750
7X	7"	7.000
70	70"	70.000
71	71"	71.000
72	72"	72.000
73	73"	73.000
74	74"	74.000
75	75"	75.000
76	76"	76.000
77	77"	77.000
78	78"	78.000
79	79"	79.000
8D	8-1/4"	8.250"
8F	8-3/8"	8.375"
8H	8-1/2"	8.500
8K	8-5/8"	8.625
8M	8-3/4"	8.750
8X	8"	8.000
80	80"	80.000
81	81"	81.000
82	82"	82.000
83	83"	83.000
84	84"	84.000
85	85"	85.000
86	86"	86.000

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<b>III. Covestro Catalog Size Table</b>		
<b><i>Code</i></b>	<b><i>English/Metric</i></b>	<b><i>Decimal</i></b>
87	87"	87.000
88	88"	88.000
89	89"	89.000
9D	9-1/4"	9.250
9H	9-1/2"	9.500
9M	9-3/4"	9.750
9X	9"	9.000
90	90"	90.000
91	91"	91.000
92	92"	92.000
93	93"	93.000
94	94"	94.000
95	95"	95.000
96	96"	96.000
97	97"	97.000
98	98"	98.000
99	99"	99.000


**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
1A	STRAIGHT SECTION	STRAIGHT SECTION
1B	COVER	COVER
1C	90 HORIZ BEND	90° HORIZONTAL BEND
1D	STRAIGHT CONNECTOR	STRAIGHT CONNECTOR
1E	90 ELBOW	90° ELBOW
1F	TEE	TEE
1G	CROSS	CROSS
1H	UNIVERSAL RISER	UNIVERSAL RISER
1J	ADJ HOR CONNECTOR	ADJUSTABLE HORIZONTAL CONNECTOR
1K	ADJ VERT CONNECTOR	ADJUSTABLE VERTICAL CONNECTOR
1L	PUSH CLIPS	PUSH CLIPS
1M	60 HORIZ BEND	60° HORIZONTAL BEND
1N	45 HORIZ BEND	45° HORIZONTAL BEND
1P	30 HORIZ BEND	30° HORIZONTAL BEND
1Q	HORIZ TEE	HORIZONTAL TEE
1R	HORIZ CROSS	HORIZONTAL CROSS
1S	LH REDUCER	LEFT HAND REDUCER
1T	RH REDUCER	RIGHT HAND REDUCER
1U	ST REDUCER	STRAIGHT REDUCER
1V	HORIZ RED TEE	HORIZONTAL REDUCING TEE
1W	HORIZ EXP TEE	HORIZONTAL EXPANSION TEE
1X	HORIZ EXP CROSS	HORIZONTAL EXPANSION CROSS
1Y	45 HORIZ WYE-LH	45° HORIZONTAL WYE - LEFT HAND
1Z	45 HORIZ WYE-RH	45° HORIZONTAL WYE - RIGHT HAND

2A	MALE CONN-TXMNPT	MALE CONNECTOR - TUBE X MALE NOMINAL PIPE THREAD
2B	FEMALE CONN-TXFNPT	FEMALE CONNECTOR - TUBE X FEMALE NOMINAL PIPE THREAD
2C	M BKHD CONN-TXMNPT	MALE BULKHEAD CONNECTOR - TUBE X MALE NOMINAL PIPE THREAD
2D	F BKHD CONN-TXFNPT	FEMALE BULKHEAD CONNECTOR - TUBE X FEMALE NOMINAL PIPE THREAD
2E	TUBE BULKHEAD UNION	TUBE BULKHEAD UNION


**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
2F	TUBE REDUCING UNION	TUBE REDUCING UNION
2G	TUBE UNION ELBOW	TUBE UNION ELBOW
2H	90 M ELBOW-TXMNPT	90° MALE ELBOW - TUBE X MALE NOMINAL PIPE THREAD
2J	F ELL	90° FEMALE ELBOW
2K	TUBE TEE	TUBE TEE
2L	M RUN TEE-TXMNPT	MALE RUN TEE - TUBE X MALE NOMINAL PIPE THEAD
2M	F RUN TEE-TXFNPT	FEMALE RUN TEE - TUBE X FEMALE NOMINAL PIPE THREAD
2N	M BRANCH TEE-TXMNPT	MALE BRANCH TEE - TUBE X MALE NOMINAL PIPE THREAD
2P	F BR TEE	FEMALE BRANCH TEE
2Q	TUBE PLUG	TUBE PLUG
2R	TUBE CAP	TUBE CAP
2S	UNION TEE	UNION TEE
2T	TUBE REDUCER	TUBE REDUCER
2U	TUBE UNION	TUBE UNION
2V	M ADAPTOR	MALE ADAPTOR
2W	F ADAPTOR	FEMALE ADAPTOR
2X	M TC CONN-TXMNPT	MALE THERMOCOUPLE CONNECTOR - TUBE X MALE NOMINAL PIPE THREAD
2Y	45 M ELBOW-TXMNPT	45° MALE ELBOW - TUBE X MALE NOMINAL PIPE THREAD
2Z	UNION CROSS	UNION CROSS

3A	TERMINALS	TERMINALS
3B	RAIL	RAIL
3C	END BRACKET	END BRACKET
3D	END SECTION	END SECTION
3E	JUMPER BAR ASSY	JUMPER BAR ASSY
3F	MARKERS	MARKERS
3G	BUSBAR	BUSBAR
3H	BUSBAR BASE	BUSBAR BASE
3J	BUSBAR CLAMP	BUSBAR CLAMP
3K	3-5/8"	3-5/8"
3L	FUSE	FUSE
3M	FW5 MARKER 4734.6	FW5 MARKER 4734.6

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**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
3N	FW6 MARKER 4686.6	FW6 MARKER 4686.6
3P	FW6.5 MARKER 4681.6	FW6.5 MARKER 4681.6
3Q	FS5 MARKER 4735.6	FS5 MARKER 4735.6
3R	FS6 MARKER 4687.6	FS6 MARKER 4687.6
3S	FS6.5 MARKER 4682.6	FS6.5 MARKER 4682.6
3T	FW8 MARKER 12769.6	FW8 MARKER 12769.6
3U	FS8 MARKER 12896.6	FS8 MARKER 12896.6
3V		
3W		
3X		
3Y		
3Z		

4A	FULL COUPLING	FULL COUPLING
4B	EXPANSION COUPLING	EXPANSION COUPLING
4C	MALE UNION	MALE UNION
4D	FEMALE UNION	FEMALE UNION
4E	HUB	HUB
4F	GROUNDING HUB	GROUNDING HUB
4G	4-7/16"	4-7/16"
4H	REDUCING BUSHING	REDUCING BUSHING
4J	REDUCING COUPLING	REDUCING COUPLING
4K	MALE ENLARGER	MALE ENLARGER
4M		
4N		
4P	BX CONNECTOR	BX CONNECTOR
4Q	ST STB FLEX CONN	STRAIGHT STB FLEXIBLE CONNECTOR
4R	45 STB FLEX CONN	45° STB FLEXIBLE CONNECTOR
4S	90 STB FLEX CONN	90° STB FLEXIBLE CONNECTOR
4T	ST STN FLEX CONN	STRAIGHT STN FLEXIBLE CONNECTOR
4U	90 STN FLEX CONN	90° STN FLEXIBLE CONNECTOR
4V	STG SEALING GASKET	STG SEALING GASKET

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**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
4W	EXGJH XP FLEX CPLG	EXGJH EXPLOSION PROOF FLEXIBLE COUPLING
4X	EXLK XP FLEX CPLG	EXLK EXPLOSION PROOF FLIXIBLE COUPLING
4Y	CG CABLE CONN	GC CABLE CONNECTOR
4Z	CG-90 CABLE CONN	CG - 90° CABLE CONNECTOR
5A	LOCKNUTS	LOCKNUTS
5B	GROUNDING LOCKNUTS	GROUNDING LOCKNUTS
5C	INSUL BUSH NIPPLE	INSULATED BUSHING NIPPLE
5D	PLASTIC BUSH	PLASTIC BUSH
5E	NIPPLE-BUSHED	NIPPLE-BUSHED
5F	THD CONDUIT GRD BUSH	THREADED CONDUIT TROUNDING BUSHING
5G	SEALING LOCKNUT	SEALING LOCKNUT
5H	SEALING GASKET	SEALING GASKET
5J	SQUARE HEAD PLUG	SQUARE HEAD PLUG
5K	BREATHER DRAIN	BREATHER DRAIN
5L	DOME COVER	DOME COVER
5M		
5N	C ULET&COVER&GASKET	C UNILET & COVER & GASKET
5P	LB ULET&COVER&GASKET	LB UNILET & COVER & GASKET
5Q	LL ULET&COVER&GASKET	LL UNILET & COVER & GASKET
5R	LR ULET&COVER&GASKET	LR UNILET & COVER & GASKET
5S	T ULET&COVER&GASKET	T UNILET & COVER & GASKET
5T	TB ULET&COVER&GASKET	TB UNILET & COVER & GASKET
5U	X ULET&COVER&GASKET	X UNILET & COVER & GASKET
5V	LAY ELBOW	LAY ELBOW
5W		
5X		
5Y		
5Z		




**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
6A	EYM CONDUIT SEAL	EYM CONDUIT SEAL
6B	EYSM CONDUIT SEAL	EYSM CONDUIT SEAL
6D	JBX OUTLET BOX	JBX OUTLET BOX
6E	GRC XP BOX	GRC EXPLOSION PROOF BOX
6F	GRL XP BOX	GRL EXPLOSION PROOF BOX
6G	GRLB XP BOX	GRLB EXPLOSION PROOF BOX
6H	GRT XP BOX	GRT EXPLOSION PROOF BOX
6J	GRX XP BOX	GRX EXPLOSION PROOF BOX
6K	ERC XP BOX	ERC EXPLOSION PROOF BOX
6L	ERLB XP BOX	ERLB EXPLOSION PROOF BOX
6M	ERLL XP BOX	ERLL EXPLOSION PROOF BOX
6N	ERLR XP BOX	ERLR EXPLOSION PROOF BOX
6P	ERT XP BOX	ERT EXPLOSION PROOF BOX
6Q	EKTB XP BOX	EKTB EXPLOSION PROOF BOX
6R		
6S		
6T	FS SIN GBOX	FS SINGLE GANG BOX
6U	FSC SIN GBOX	FSC SINGLE GANG BOX
6V	FS 2 GBOX	FS TWO GANG BOX
6W	FSC 2 GBOX	FSC TWO GANG BOX
6X	FS SIN GBOX DUP COV	FS SINGLE GANG BOX DUPLEX COVER
6Y	FS SIN GBOX BLA COV	FS SINGLE GANG BOX BLANK COVER
6Z	FS SIN GBOX SWI COV	FS SINGLE GANG BOX SWITCH COVER
7A	FS 2 GBOX DUP COV	FS TWO GANG BOX DUPLEX COVER
7B	FS2 GBOX DOU SWI COV	FS TWO GANG BOX DOUBLE SWITCH COVER
7C	FS 2 GBOX SWI&RCPT	FS TWO GANG BOX SWITCH & RECEPTACLE
7D	HANDY BOX	HANDY BOX
7E		
7F	HAN BOX DUP RCPT COV	HANDY BOX DUPLES RECEPTACLE COVER
7G	HAN BOX SWI COV	HANDY BOX SWITCH COVER
7H	KO BOX	KNOCKOUT BOX

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**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
7J	KO BOX COV	KNOCKOUT BOX COVER
7K	SUSPENSION HGR	SUSPENSION HANGER
7L	FLEX FIX HGR	FLEXIBLE FIXTURE HANGER
7M	EFHC FIX HGR	EFHC FIXTURE HANGER
7N	AHG FIX HGR	AHG FIXTURE HANGER
7P	SUPPORT HOOK	SUPPORT HOOK
7Q	RIGHT ANGLE CLAMP	RIGHT ANGLE CLAMP
7R	PARALLEL CLAMP	PARALLEL CLAMP
7S	EDGE CLAMP	EDGE CLAMP
7T	BEAM CLAMP	BEAM CLAMP
7U	U BOLT	U BOLT
7V	ONE HOLE CLAMP	ONE HOLE CLAMP
7W	TWO HOLE CLAMP	TWO HOLE CLAMP
7X	CLAMP BACKS	CLAMP BACKS
7Y	LCC CONNECTOR	LCC CONNECTOR
7Z	CND HGR W/SWVL BOLTS	CONDUIT HANGER W/ SWIVEL BOLTS

8A	90 VERT BEND-I	90° VERTICAL BEND-I
8B	60 VERT BEND-I	60° VERTICAL BEND-I
8C	45 VERT BEND-I	45° VERTICAL BEND-I
8D	30 VERT BEND-I	30° VERTICAL BEND-I
8E	90 VERT BEND-O	90° VERTICAL BEND-O
8F	60 VERT BEND-O	60° VERTICAL BEND-O
8G	45 VERT BEND-O	45° VERTICAL BEND-O
8H	30 VERT BEND-O	30° VERTICAL BEND-O
8J	VERT TEE-UP	VERTICAL TEE-UP
8K	VERT TEE-DOWN	VERTICAL TEE-DOWN
8L	SUPPORT FTG	SUPPORT FITTING
8M	VERT ADJ PLATE	VERTICAL ADJUSTABLE PLATE
8N	HORIZ ADJ PLATE	HORIZONTAL ADJUSTABLE PLATE
8P	EXP PLATE	EXPANSION PLATE

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IV. Covestro Catalog Shape Table		
Shape Code	Abbreviation	Description
8Q	WEDGE LOCK PLATE	WEDGE LOCK PLATE
8R	LADDER DROP-OUT	LADDER DROP-OUT
8S	90 VERT BARRIER-I	90° VERTICAL BARRIER-I
8T	60 VERT BARRIER-I	60° VERTICAL BARRIER-I
8U	45 VERT BARRIER-I	45° VERTICAL BARRIER-I
8V	30 VERT BARRIER-I	30° VERTICAL BARRIER-I
8W	90 VERT BARRIER-O	90° VERTICAL BARRIER-O
8X	60 VERT BARRIER-O	60° VERTICAL BARRIER-O
8Y	45 VERT BARRIER-O	45° VERTICAL BARRIER-O
8Z	30 VERT BARRIER-O	30° VERTICAL BARRIER-O

9A	BARRIER STRIP CLIP	BARRIER STRIP CLIP
9B	HORIZ BEND BARRIER	HORIZONTAL BEND BARRIER
9C	ST SECT BARRIER	STRAIGHT SECTION BARRIER
9D		
9E		
9F		
9G		
9H		
9J		
9K		
9L		
9M		
9N		
9P		
9Q		
9R		
9S		
9T		
9U		
9V		
9W		

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**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
9X		
9Y		
9Z		
A1	ADAPTER-BLEED	ADAPTER-BLEED
A2		
A3		
A4		
A5		
A6		
A7		
A8		
A9		

AA	ADAPTER-SKTXMNPT	ADAPTER - SOCKET X MALE NOMINAL PIPE THREAD
AB	ADAPTER-SKTXFNPT	ADAPTER - SOCKET X FEMALE NOMINAL PIPE THREAD
AC	ADAPTER-CIXPLA	ADAPTER - CAST IRON X PLASTIC
AD	ADAPTER-CLYXPLA	ADAPTER - CLAY X PLASTIC
AE	ADAPTER-HUBXPLA	ADAPTER - HUB X PLASTIC
AF	ADAPTER-GLXBCPLG	ADAPTER - GLASS X BEAD COUPLING
AG	ADAPTER-GLXLNFLG	ADAPTER - GLASS X LAP FLANGE
AH	ADAPTER-FLGXICIBELL	ADAPTER - FLANGE X CAST IRON BELL
AJ	ADAPTER-LFLGXICIBELL	ADAPTER - LAP FLANGE X CAST IRON BELL
AK	ADAPTER-FNPTXMNPT	ADAPTER - FEMALE NOMINAL PIPE THREAD X MALE NOMINAL PIPE THREAD
AL	DOUBLE HUB	DOUBLE HUB
AM	ADAPTER-MNPTXFNPT	ADAPTER - MALE NOMINAL PIPE THREAD X FEMALE NOMINAL PIPE THREAD
AN	ADAPTER-MNPTXJIC	ADAPTER - MALE NOMINAL PIPE THREAD X JIC
AP	ADAPTER-FNPTXJIC	ADAPTER - FEMALE NOMINAL PIPE THREAD X JIC
AQ	ADAPTER-JICXJIC	ADAPTER - JIC X JIC
AR	ADAPTER-MJXFLG	ADAPTER - MECHANICAL JOINT X FLANGE
AS	ADAPTER-MJXPE	ADAPTER - MECHANICAL JOINT X PLAIN END
AT	ADAPTER-CONLXARMOR	ADAPTER - CONICAL X ARMOR

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**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
AU	ADPTER-SWTXFLR	ADAPTER - SWEAT END X FLARE
AV	ADAPTER-FLRXFLR	ADAPTER - FLARE X FLARE
AW	ADAPTER-EJXMNPT	ADAPTER - ENFIELD JOINT X MALE NOMINAL PIPE THREAD
AX	ADAPTER-EJXFNPT	ADAPTER - ENFIELD JOINT X FEMALE NOMINAL PIPE THREAD
AY	ADAPTER-EJXBEAD	ADAPTER - ENFIELD JOINT X BEAD
AZ	ADAPTER- NO-HUB	ADAPTER- NO-HUB

B1	BUSHING-SPIGOT X HUB	BUSHING-SPIGOT X HUB
B2	BUSHING-SPIGOT X FPT	BUSHING - SPIGOT X FEMALE PIPE THREAD
B3		
B4		
B5		
B6		
B7		
B8		
B9		

BA	BUSHING-FL/THDXHD	FLUSH HEAD BUSHING – THREADED X THREADED
BB	BUSHING-HX/THDXTHD	HEX HEAD BUSHING - THREADED X THREADED
BC	BUSHING-SKTXSKT	BUSHING - SOCKET X SOCKET
BD	BUSHING-SKTXTHD	BUSHING - SOCKET X THREADED
BE	BUSHING-EXTEND	BUSHING-EXTEND
BF	90 BEND/4D	90° BEND / 4 DIAMETER
BG	60 BEND/4D	60° BEND / 4 DIAMETER
BH	45 BEND/4D	45° BEND / 4 DIAMETER
BJ	30 BEND/4D	30° BEND / 4 DIAMETER
BK	22.5 BEND/4D	22 1/2° BEND / 4 DIAMETER
BL	15 BEND/4D	15° BEND / 4 DIAMETER
BM	90 BEND/6D	90° BEND / 6 DIAMETER
BN	60 BEND/6D	60° BEND / 6 DIAMETER
BP	45 BEND/6D	45° BEND / 6 DIAMETER
BQ	30 BEND/6D	30° BEND / 6 DIAMETER

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**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
BR	22.5 BEND/6D	22 1/2° BEND / 6 DIAMETER
BS	15 BEND/6D	15° BEND / 6 DIAMETER
BT	90 BEND/7D	90° BEND / 7 DIAMETER
BU	60 BEND/7D	60° BEND / 7 DIAMETER
BV	45 BEND/7D	45° BEND / 7 DIAMETER
BW	30 BEND/7D	30° BEND / 7 DIAMETER
BX	22.5 BEND/7D	22 1/2° BEND / 7 DIAMETER
BY	15 BEND/7D	15° BEND / 7 DIAMETER
BZ	90 BEND/8D	90° BEND / 8 DIAMETER

C1	0-15 PSIG	0-15 PSIG
C2	0-30 PSIG	0-30 PSIG
C3	0-60 PSIG	0-60 PSIG
C4	0-100 PSIG	0-100 PSIG
C5	0-160 PSIG	0-160 PSIG
C6	0-200 PSIG	0-200 PSIG
C7	0-300 PSIG	0-300 PSIG
C8	0-400 PSIG	0-400 PSIG
C9	0-600 PSIG	0-600 PSIG

CA	COUPLING	COUPLING
CB	COUPLING-HALF	COUPLING - HALF
CC	COUPLING-REDUCE	COUPLING - REDUCE
CD	COUPLING-REPAIR	COUPLING - REPAIR
CE	COUPLING-TRANS	TRANSITION COUPLING
CF	COUPLING-THDXSKT	COUPLING - THREADED X SOCKET
CG	CPLG W/BUSH NIPPLE	COUPLING W/ BUSHING NIPPLE
CH	60 BEND/8D	60° BEND / 8 DIAMETER
CJ	45 BEND/8D	45° BEND / 8 DIAMETER
CK	30 BEND/8D	30° BEND / 8 DIAMETER
CL	22.5 BEND/8D	22 1/2° BEND / 8 DIAMETER
CM	15 BEND/8D	15° BEND / 8 DIAMETER

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**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
CN	90 BEND/9D	90° BEND / 9 DIAMETER
CP	60 BEND/9D	60° BEND / 9 DIAMETER
CQ	45 BEND/9D	45° BEND / 9 DIAMETER
CR	30 BEND/9D	30° BEND / 9 DIAMETER
CS	22.5 BEND/9D	22 1/2° BEND / 9 DIAMETER
CT	15 BEND/9D	15° BEND / 9 DIAMETER
CU	90 BEND/11D	90° BEND / 11 DIAMETER
CV	60 BEND/11D	60° BEND / 11 DIAMETER
CW	45 BEND/11D	45° BEND / 11 DIAMETER
CX	30 BEND/11D	30° BEND / 11 DIAMETER
CY	22.5 BEND/11D	22 1/2° BEND / 11 DIAMETER
CZ	15 BEND/11D	15° BEND / 11 DIAMETER

D1	LKG LEVER-3"STEM EXT	LOCKING LEVER-3" STEM EXTENTION
D2	LKG LEVER-6"STEM EXT	LOCKING LEVER-6" STEM EXTENTION
D3	OVAL HANDLE	OVAL HANDLE
D4	KNOB HANDLE	KNOB HANDLE
D5	TOGGLE HANDLE	TOGGLE HANDLE
D6	LKG GEAR-3" STEM EXT	LOCKING GEAR-3" STEM EXTENTION
D7	4" STEM EXT W/LEVER	4" STEM EXTENDER W/LEVER
D8	SPRING FACE RETURN HANDLE	SPRING FACE RETURN HANDLE
D9	T/HDL-4"STEM EXT	T-HANDLE - 4" STEM EXTENDER

DA	3" STEM EXT W/LEVER	3" STEM EXT W/LEVER
DB	6" STEM EXT W/LEVER	6" STEM EXT W/LEVER
DC	STD HANDWHEEL	STANDARD HANDWHEEL
DD	STD LEVER OR WRENCH	STANDARD LEVER OR WRENCH
DE	LOCKING OVAL HNDWL	LOCKING OVAL HANDWHEEL
DF	LOCKING LEVER/ WRENCH	LOCKING LEVER/WRENCH
DG	T-HANDLE	T-HANDLE
DH	CHWHL W/SAFETY CABLE	CHAINWHEEL W/SAFETY CABLE

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**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
DI	GEAR W/CHAIN WHEEL	GEAR W/CHAIN WHEEL
DJ	LEV/CHN W/SAFE CABLE	LEVER/CHAIN W/SAFE CABLE
DK	MANUAL GEAR OPR	MANUAL GEAR OPERATOR
DL	LOCK NOTCH PLT HNDL	LOCK NOTCH PLATE HANDLE
DM	LOCK MANUAL GEAR	LOCK MANUAL GEAR
DN	THREAD END	THREAD END
DO	CRANK HANDLE	CRANK HANDLE
DP	BUTT WELD END	BUTT WELD END
DQ	PLAIN END	PLAIN END
DR	FLANGE END	FLANGE END
DS	GROOVE END	GROOVE END
DT	TAPER END	TAPER END
DU	FLARE END	FLARE END
DV	STUB END	STUB END
DW	90 BEND/12D	90° BEND / 12 DIAMETER
DX	60 BEND/12D	60° BEND / 12 DIAMETER
DY	45 BEND/12D	45° BEND / 12 DIAMETER
DZ	30 BEND/12D	30° BEND / 12 DIAMETER

E1	CROSS HANDLE	CROSS HANDLE
E2	DIRECTIONAL HANDLE	DIRECTIONAL HANDLE
E3	ROUND HANDLE	ROUND HANDLE
E4	VERNIER HANDLE	VERNIER HANDLE
E5	T/HDL-4"EXT & CHAIN	T-HANDLE - 4" EXTENTION & CHAIN
E6	KNURLED HANDLE	KNURLED HANDLE
E7	IMPACTOR HANDWHEEL	IMPACTOR HANDWHEEL
E8	45 OFFSET T-HDL/CHN	45° OFFSET T-HANDLE/CHAIN
E9		




**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
EA	STUBEND-LONG/A	LONG STUB END - TYPE A
EB	STUBEND-SHORT/A	SHORT STUB END - TYPE A
EC	STUBEND-CONN	STUB END CONNECTOR
ED	FERRULE-BW	FERRULE - BUTT WELD
EE	STUBEND-LONG/B	LONG STUB END - TYPE B
EF	STUBEND-SHORT/B	SHORT STUB END - TYPE B
EG	FERRULE-TANK WELD	FERRULE - TANK WELD
EH	FERRULE-FRONT	FERRULE - FRONT
EI	REDUCING FERRULE	REDUCING FERRULE
EJ	FERRULE-BACK	FERRULE - BACK
EK	FERRULE-LONG/BW	FERRULE - LONG/BUTT WELD
EL	FERRULE-RECESS	FERRULE - RECESS
EM	STUBEND-THD/SKT	STUB END - THREADED X SOCKET
EN	STUBEND-SO/SKT	STUB END - SLIP-ON X SOCKET
EP	STUB END W/PUP	STUB END W/PUP
EQ	STUBEND	STUBEND
ER	MALE CONNECTOR	MALE CONNECTOR
ES	CONNECTOR-FEMALE	CONNECTOR - FEMALE
ET	FERRULE-SHORT/BW	FERRULE-SHORT/BUTT WELD
EU	22.5 BEND/12D	22 1/2° BEND / 12 DIAMETER
EV	15 BEND/12D	15° BEND / 12 DIAMETER
EW	45 BEND/12D-6"T	45° BEND / 12 DIAMETER - 6" TANGENT
EX	30 BEND/12D-6"T	30° BEND / 12 DIAMETER - 6" TANGENT
EY	22.5 BEND/12D-6"T	22 1/2° BEND / 12 DIAMETER - 6" TANGENT
EZ	15 BEND/12D-6"T	15° BEND / 12 DIAMETER - 6" TANGENT

F1	0-800 PSIG	0 - 800 PSIG
F2	0-1000 PSIG	0 - 1000 PSIG
F3	0-1500 PSIG	0 - 800 PSIG
F4	0-2000 PSIG	0 - 1000 PSIG
F5	0-3000 PSIG	0 - 1500 PSIG
F6	0-4000 PSIG	0 - 2000 PSIG

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**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
F7	0-15" WC	0 - 15" WC
F8	0-30" WC	0 - 30" WC
F9	0-40" WC	0 - 40" WC

FA	LATERAL	LATERAL
FB	LATERAL-REDUCE	LATERAL - REDUCE
FC	CON REDUCER-40X.375	CONCENTRIC REDUCER - 40 X .375
FD	ECC REDUCER-40X.375	ECCENTRIC REDUCER - 40 X .375
FE	RDG ELBOW-40X.375	RDG ELBOW - 40 X .375
FF	RDG TEE-40X.375	RDG TEE - 40 X .375
FG	CON REDUCER - .375X40	CONCENTRIC REDUCER - .375 X 40
FH	ECC REDUCER-.375X40	ECCENTRIC REDUCER - .375 X 40
FJ	RDG ELBOW-.375X40	RDG ELBOW - .375 X 40
FK	RDG TEE-.375X40	RDG TEE - .375 X 40
FL	CON REDUCER-.500X80	CONCENTRIC REDUCER - .500 X 80
FM	ECC REDUCER-.500X80	ECCENTRIC REDUCER - .500 X 80
FN	RDG ELBOW-.500X80	REDUCING ELBOW - .500 X 80
FP	RDG TEE-.500X80	REDUCING TEE - .500 X 80
FQ	CON REDUCER-.375X10	CON REDUCER - .375 X 10
FR	ECC REDUCER-.375X10	ECC REDUCER - .375 X 10
FS	RDG ELBOW-.375X10	REDUCING ELBOW - .375 X 10
FT	RDG TEE-.375X10	REDUCING TEE - .375 X 10
FU	CON REDUCER-40X80	CONCENTRIC REDUCER - 40 X 80
FV	ECC REDUCER-40X80	ECCENTRIC REDUCER - 40 X 80
FW	RDG ELBOW-40X80	REDUCING ELBOW - 40 X 80
FX	RDG TEE-40X80	REDUCING TEE - 40 X 80
FY	22.5 BEND/11D-12"T	22 1/2° BEND / 11 DIAMETER - 12" TANGENT
FZ	15 BEND/11D-12"T	15° BEND / 11 DIAMETER - 12" TANGENT


**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
G1		
G2	GASKET-FILLER	GASKET - FILLER
G3	GASKET-RING FACE	GASKET - RING FACE
G4	O-RING FACE	O-RING
G5	INSERT-ADAPTER	INSERT - ADAPTER
G6		
G7		
G8		
G9		

GA	GASKET-150RING FACE	GASKET - 150# RING FACE
GB	GASKET-150FF	GASKET - 150# FULL FACE
GC	GASKET-150SOL	GASKET - 150# SOLID
GD	GASKET-300RING FACE	GASKET - 300# RING FACE
GE	GASKET-300FF	GASKET - 300# FULL FACE
GF	GASKET-300SOL	GASKET - 300# SOLID
GG	GASKET-400RING FACE	GASKET - 400# RING FACE
GH	GASKET-400FF	GASKET - 400# FULL FACE
GI	GASKET KIT	GASKET KIT
GJ	GASKET-400SOL	GASKET - 400# SOLID
GK	GASKET-600RING FACE	GASKET - 600RING FACE
GL	GASKET-600FF	GASKET - 600 FULL FACE
GM	GASKET-600SOL	GASKET - 600# SOLID
GN	GASKET-900RING FACE	GASKET - 900# RING FACE
GP	GASKET-900FF	GASKET - 900# FULL FACE
GQ	GASKET-900SOL	GASKET - 900# SOLID
GR	GASKET-1500RING FACE	GASKET - 1500# RING FACE
GS	GASKET-1500FF	GASKET - 1500# FULL FACE
GT	GASKET-1500SOL	GASKET - 1500# SOLID
GU	GASKET-2500RING FACE	GASKET - 2500# RING FACE


**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
GV	GASKET-2500FF	GASKET - 2500# FULL FACE
GW	GASKET-2500SOL	GASKET - 2500# SOLID
GX	GASKETSHEET	GASKETSHEET
GY	GASKET-75RING FACE	GASKET - 75# RING FACE
GZ	GASKET-175RING FACE	GASKET - 175# RING FACE

H1		
H2		
H3	0-200"WC	0-200"WC
H4	-30"HG/0-15 PSIG	-30"HG/0-15 PSIG
H5	-30"HG/0-30 PSIG	-30"HG/0-30 PSIG
H6	-30"HG/0-60 PSIG	-30"HG/0-60 PSIG
H7	-30"HG/0-100 PSIG	-30"HG/0-100 PSIG
H8	-30"HG/0-160 PSIG	-30"HG/0-160 PSIG
H9	-30"HG/0-200 PSIG	-30"HG/0-200 PSIG

HA	SADDLE-BLANK	SADDLE - BLANK
HB	PAD	PAD
HC	SADDLE-SKT OUTLET	SADDLE - SOCKET OUTLET
HD	SADDLE-THD OUTLET	SADDLE - THREADED OUTLET
HE	SADDLE-FLG OUTLET	SADDLE - FLANGE OUTLET
HF	SADDLE-MJ OUTLET	SADDLE - MECHANICAL JOINT OUTLET
HG	SADDLE-TAPPED	SADDLE - TAPPED
HH	SADDLE-BUTT OUTLET	SADDLE - BUTT OUTLET
HJ	CON REDUCER-.500X40	CONCENTRIC REDUCER - .500 X 40
HK	ECC REDUCER-.500X40	ECCENTRIC REDUCER - .500 X 40
HL	RDG ELBOW-.500X40	REDUCING ELBOW - .500 X 40
HM	RDG TEE-.500X40	REDUCING TEE - .500 X 40
HN	CON RED-.500X.375	CONCENTRIC REDUCER - .500 X .375
HP	ECC RED-.500X.375	ECCENTRIC REDUCER - .500 X .375
HQ	RDG ELBOW-.500X.375	REDUCING ELBOW - .500 X .375
HR	RDG TEE-.500X.375	REDUCING TEE - .500 X .375

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**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
HS	CON REDUCER-10SX40S	CONCENTRIC REDUCER - 10S X 40S
HT	ECC REDUCER-10SX40S	ECCENTRIC REDUCER - 10S X 40S
HU	RDG ELBOW-10SX40S	REDUCING ELBOW - 10S X 40S
HV	RDG TEE-10SX40S	REDUCING TEE - 10S X 40S
HW	CON REDUCER-40SX10S	CONCENTRIC REDUCER - 40S X 10S
HX	ECC REDUCER-40SX10S	ECCENTRIC REDUCER - 40S X 10S
HY	RDG ELBOW-40SX10S	REDUCING ELBOW - 40S X 10S
HZ	RDG TEE-40SX10S	REDUCING TEE - 40S X 10S

IA	SWG-BLE/40XTSE/80-C	SWAGE-BEVELED LARGE END/40 X THREADED SMALL END/80 CONCENTRIC
IB	SWG-BLE/40XPSE/80-C	SWAGE-BEVELED LARGE END/40 X PLAIN SMALL END/80 CONCENTRIC
IC	SWG-BLE/40XTSE/80-E	SWAGE-BEVELED LARGE END/40 X THREADED SMALL END/80 ECCENTRIC
ID	SWG-BLE/40XPSE/80-E	SWAGE-BEVELED LARGE END/40 X PLAIN SMALL END/80 ECCENTRIC
IE	SWG-BBE/10SX40S-C	SWAGE-BEVELED BOTH ENDS/10S X 40S CONCENTRIC
IF	SG-BLE/10SXPSE/40S-C	SWAGE-BEVELED BOTH ENDS/10S X PLAIN SMALL END/40S CONCENTRIC
IG	SG-BLE/10SXPSE/40S-E	SWAGE-BEVELED LARGE END/10S X PLAIN SMALL END/40S CONCENTRIC
IH	SWG-TBE (CON)	SWAGE-THREADED BOTH ENDS (CONCENTRIC)
IJ	SWAGE-PBE(CON)	SWAGE-PLAIN BOTH ENDS (ECCENTRIC)
IK	SWAGE-PBE(ECC)	SWAGE-PLAIN BOTH ENDS (CONCENTRIC)
IL	SWG-TBE (ECC)	SWAGE-THREADED BOTH ENDS (ECCENTRIC)
IM	SWG-BLE/80XPSE/160-C	SWAGE-BEVELED LARGE END/80 X PLAIN SMALL END/160 CONCENTRIC
IN	SWG-BLE/80XPSE/160-E	SWAGE-BEVELED LARGE END/80 X PLAIN SMALL END/160 ECCENTRIC
IP	ADAPTER-CLP X MNPT	ADAPTER - CLAMP X MALE NOMINAL PIPE THREAD
IQ	ADAPTER-CLP X FNPT	ADAPTER - CLAMP X FEMALE NOMINAL PIPE THREAD
IR	ADAPTER-GRV X FNPT	ADAPTER - GROOVE X FEMALE NOMINAL PIPE THREAD


**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
IS	ELL-90/GRV X MNPT	ELBOW 90° - GROOVE X MALE NOMINAL PIPE THREAD
IT	ELL-45/GRV X MNPT	ELBOW 45° - GROOVE X MALE NOMINAL PIPE THREAD
IU	SWG-BLE/40 X BSE/80-C	SWAGE-BEVELED LARGE END/40 X BEVELED SMALL END/80 CONCENTRIC
IV		
IW		
IX		
IY		
IZ		

J1		
J2		
J3	30 BEND/7D-12"T	30° BEND / 7 DIAMETER - 12" TANGENT
J4	22.5 BEND/7D-12"T	22 1/2° BEND / 7 DIAMETER - 12" TANGENT
J5	15 BEND/7D-12"T	15° BEND / 7 DIAMETER - 12" TANGENT
J6	90 BEND/8D-12"T	90° BEND / 8 DIAMETER - 12" TANGENT
J7	60 BEND/8D-12"T	60° BEND / 8 DIAMETER - 12" TANGENT
J8	45 BEND/8D-12"T	45° BEND / 8 DIAMETER - 12" TANGENT
J9	30 BEND/8D-12"T	30° BEND / 8 DIAMETER - 12" TANGENT

JA	INSERT-TYP1	INSERT - TYPE 1
JB	INSERT-TYP2	INSERT - TYPE 2
JC	INSERT-IPS	INSERT - IPS
JD	INSERT-BLANK	INSERT - BLANK
JE	INSERT-TUBE	INSERT - TUBE
JF	INSERT-SKTXTHD	INSERT - SOCKET X THREADED
JG	INSERT-FLG	INSERT - FLANGED
JH	90 BEND/4D-6"T	90° BEND / 8 DIAMETER - 12" TANGENT
JJ	60 BEND/4D-6"T	60° BEND / 8 DIAMETER - 12" TANGENT
JK	45 BEND/4D-6"T	45° BEND / 8 DIAMETER - 12" TANGENT
JL	30 BEND/4D-6"T	30° BEND / 8 DIAMETER - 12" TANGENT


**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
JM	22.5 BEND/4D-6"T	22 1/2° BEND / 7 DIAMETER - 12" TANGENT
JN	15 BEND/4D-6"T	15° BEND / 7 DIAMETER - 12" TANGENT
JP	90 BEND/5D-6"T	90° BEND / 8 DIAMETER - 12" TANGENT
JQ	60 BEND/5D-6"T	60° BEND / 8 DIAMETER - 12" TANGENT
JR	45 BEND/5D-6"T	45° BEND / 8 DIAMETER - 12" TANGENT
JS	30 BEND/5D-6"T	30° BEND / 8 DIAMETER - 12" TANGENT
JT	22.5 BEND/5D-6"T	22 1/2° BEND / 7 DIAMETER - 12" TANGENT
JU	15 BEND/5D-6"T	15° BEND / 7 DIAMETER - 12" TANGENT
JV	90 BEND/6D-6"T	90° BEND / 8 DIAMETER - 12" TANGENT
JW	60 BEND/6D-6"T	60° BEND / 8 DIAMETER - 12" TANGENT
JX	45 BEND/6D-6"T	45° BEND / 8 DIAMETER - 12" TANGENT
JY	30 BEND/6D-6"T	30° BEND / 8 DIAMETER - 12" TANGENT
JZ	22.5 BEND/6D-6"T	22 1/2° BEND / 7 DIAMETER - 12" TANGENT

K1	-15"WC/0-15"WC	-15"WC/0-15"WC
K2	ADAPTER-TUBE X SW	ADAPTER - TUBE X SOCKET WELD
K3	ADAPTER-TUBE X BW	ADAPTER - TUBE X BUTT WELD
K4		
K5	90 ELBOW-TUBE X SW	90° ELBOW - TUBE X SOCKET WELD
K6	90 ELBOW-TUBE X BW	90° ELBOW - TUBE X BUTT WELD
K7	-20"WC/0-20"WC	-20"WC/0-20"WC
K8		
K9		
KA	CROSS	CROSS
KB	CROSS-SHORT/STK	CROSS - SHORT STACK
KC	CROSS - MJXPXMJXMJ	CROSS - MECHANICAL JOINT X PLAIN X MECHANICAL JOINT X MECHANICAL JOINT
KD	CROSS-REDUCE	CROSS - REDUCE
KE	CROSS-TAPPED	CROSS - TAPPED
KF	CROSS-SANITARY	CROSS - SANITARY
KG	CROSS-SAN/TAP	CROSS - SANITARY TRAP


**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
KL	ADAPTER-BALLXCONICAL	ADAPTER - BALL X CONICAL
KM	ADAPTER-SKTXCONICAL	ADAPTER - SOCKET X CONICAL
KN	ADAPTER-PLNXCONICAL	ADAPTER - PLAIN X CONICAL
KL	ADAPTER-BALL X CONICAL	ADAPTER - BALL X CONICAL
KM	ADAPTER-SKTXCONICAL	ADAPTER - SOCKET X CONICAL
KN	ADAPTER-PLNXCONICAL	ADAPTER - PLAIN X CONICAL
KP	45 BEND/7D-6"T	45° BEND / 7 DIAMETER - 6" TANGENT
KQ	30 BEND/7D-6"T	30° BEND / 7 DIAMETER - 6" TANGENT
KR	22.5 BEND/7D-6"T	22 1/2° BEND / 7 DIAMETER - 6" TANGENT
KS	15 BEND/7D-6"T	15° BEND / 7 DIAMETER - 6" TANGENT
KT	90 BEND/8D-6"T	90° BEND / 8 DIAMETER - 6" TANGENT
KU	60 BEND/8D-6"T	60° BEND / 8 DIAMETER - 6" TANGENT
KV	45 BEND/8D-6"T	45° BEND / 8 DIAMETER - 6" TANGENT
KW	30 BEND/8D-6"T	30° BEND / 8 DIAMETER - 6" TANGENT
KX	22.5 BEND/8D-6"T	22 1/2° BEND / 8 DIAMETER - 6" TANGENT
KY	15 BEND/8D-6"T	15° BEND / 8 DIAMETER - 6" TANGENT
KZ	90 BEND/9D-6"T	90° BEND / 9 DIAMETER - 6" TANGENT

L1	ELBOW-THERMOWELL	ELBOW - THERMOWELL
L2	90 ELBOW W/DRAIN	90° ELBOW W/DRAIN

LA	ELL-90/LR	ELBOW-90° LONG RADIOUS
LB	ELL-90/SR	ELBOW-90° SHORT RADIOUS
LC	ELL-45	ELBOW-45°
LD	ELL-180/LR	ELBOW-180° LONG RADIOUS
LE	ELL-180/SR	ELBOW-180° SHORT RADIOUS
LF	ELL-90/REDUCE	ELBOW-90° REDUCING
LG	ELL-90/SWEEP	ELBOW-90° SWEEP




**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
LH	90 UN M ELBOW	90° UNION MALE ELBOW
LI	ELL-90/RTG FLG	90° ELBOW - ROTATING FLANGE
LJ	90 UN F ELBOW	90° UNION FEMALE ELBOW
LL	45 BEND/1.5D	45° BEND / 1 1/2 DIAMETER
LM	90 BEND/1.5D	90° BEND / 1 1/2 DIAMETER
LN	60 BEND/1.5D	60° BEND / 1 1/2 DIAMETER
LP	90 BEND/3D	90° BEND / 3 DIAMETER
LQ	ELBOW-1/32BEND	ELBOW - 1/32° BEND
LR	ELBOW-RETURN	ELBOW - RETURN
LS	ELL-90/STREET	ELBOW - 90° / STREET
LT	ELL-45/STREET	ELBOW - 45° / STREET
LU	ELL-90	ELBOW-90°
LV	45 BEND/3D	45° BEND / 3 DIAMETER
LW	ELL-90/FEMALE	ELBOW - 90° FEMALE
LX	ELL-90/MALE	ELBOW - 90° MALE
LY	ELL-45/FEMALE	ELBOW - 45° FEMALE
LZ	90 H/UN M-ELL	90° HALL UNION MALE ELBOW
MA	60 BEND/3D	60° BEND / 3 DIAMETER
MB	30 BEND/3D	30° BEND / 3 DIAMETER
MC	22.5 BEND/3D	22 1/2° BEND / 3 DIAMETER
MD	15 BEND/3D	15° BEND / 3 DIAMETER
ME	30 BEND/5D	30° BEND / 5 DIAMETER
MF	90 BEND/10D	90° BEND / 10 DIAMETER
MG	60 BEND/10D	60° BEND / 10 DIAMETER
MH	45 BEND/10D	45° BEND / 10 DIAMETER
MJ	30 BEND/10D	30° BEND / 10 DIAMETER
MK	22.5 BEND/10D	22 1/2° BEND / 10 DIAMETER
ML	15 BEND/12D	15° BEND / 12 DIAMETER
MM	30 BEND/12D	30° BEND / 12 DIAMETER
MN	45 BEND/12D	45° BEND / 12 DIAMETER
MP	90 BEND/12D	90° BEND / 12 DIAMETER

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**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
MQ	15 BEND/9D	15° BEND / 9 DIAMETER
MR	30 BEND/9D	30° BEND / 9 DIAMETER
MS	45 BEND/9D	45° BEND / 9 DIAMETER
MT	90 BEND/9D	90° BEND / 9 DIAMETER
MU	60 BEND/8D-12"T	60° BEND / 8 DIAMETER - 12" TANGENT
MV	22.5 BEND/9D-12"T	22 1/2° BEND / 8 DIAMETER - 12" TANGENT
MW	60 BEND/12D-12"T	60° BEND / 12 DIAMETER - 12" TANGENT
MX	22.5 BEND/12D-12"T	22 1/2° BEND / 12 DIAMETER - 12" TANGENT
MY	90 BEND/11D-12"T	90° BEND / 11 DIAMETER - 12" TANGENT
MZ	60 BEND/11D-12"T	60° BEND / 11 DIAMETER - 12" TANGENT

N1	CON REDUCER-40X.500	CONCENTRIC REDUCER - 40 X .500
N2	ECC REDUCER-40X.500	ECCENTRIC REDUCER - 40 X .500
N3	RDG TEE-40X.500	REDUCING TEE - 40 X .500
N4	RDG ELBOW-40X.500	REDUCING ELBOW - 40 X .500
N5	PLN X MALE JIC	PLAIN X MALE JIC
N6		
N7		
N8		
N9		

NA	NIPPLE-CLOSE	NIPPLE - CLOSE
NB	6" THD NIPPLE	6" THREADED NIPPLE
NC	NIPPLE-TANK	NIPPLE - TANK
ND	NIPPLE-HEX	NIPPLE - HEX
NE	3"THD NIPPLE	3" THREADED NIPPLE
NF	9"THD NIPPLE	9" THREADED NIPPLE
NG	12"THD NIPPLE	12" THREADED NIPPLE
NH	NIPPLE-THDXTHD	NIPPLE THREADED X THREADED
NJ	NIPPLE-PLAIN	NIPPLE - PLAIN
NK	NIPPLE-PLNXTHD	NIPPLE - PLAIN X THREADED
NL	NIPPLE-BEVXTHD	NIPPLE - BEVELED X THREADED

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**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
NM	NIPPLE-BEVXPLN	NIPPLE - BEVELED X PLAIN
NN	NIPPLE-FLGXTHD/150	NIPPLE - FLANGE/150 X THREADED
NP	NIPPLE-SKTXTHD	NIPPLE - SOCKET X THREADED
NQ	NIPPLE-BEVEL	NIPPLE - BEVEL
NR	NIPPLE-FLGXTHD/300	NIPPLE - FLANGED/300 X THREADED
NS	FLARED-NIPPLE	FLARED - NIPPLE
NT	NIPPLE-GROOVE X BEV	NIPPLE - GROOVE X BEVELED
NU	NIPPLE-SHORT	NIPPLE - SHORT
NV	30 BEND/11D-6"T	30° BEND / 11 DIAMETER - 6" TANGENT
NW	22.5 BEND/11D-6"T	22 1/2° BEND / 11 DIAMETER - 6" TANGENT
NX	15 BEND/11D-6"T	15° BEND / 11 DIAMETER - 6" TANGENT
NY	90 BEND/12D-6"T	90° BEND / 12 DIAMETER - 6" TANGENT
NZ	60 BEND/12D-6"T	60° BEND / 12 DIAMETER - 6" TANGENT

OA	GLAND-SHORT TBW	GLAND - SHORT TUBE BUTT WELD
OB	GLAND-LONG TBW	GLAND - LONG TUBE BUTT WELD
OC	GLAND-SHT AUTOMATIC TBW	SHORT GLAND - AUTOMATIC TUBE BUTT WELD
OD	GLAND -LG AUTOMATIC BW	LONG GLAND - AUTOMATIC TUBE BUTT WELD
OE	GLAND-SW	GLAND - SOCKET WELD
OF	GLAND-SHORT SW	SHORT GLAND - SOCKET WELD
OG	GLAND-REDUCING SW	GLAND - REDUCING SOCKET WELD
OH	GLAND-TUBE ADAPTER	GLAND - TUBE ADAPTER
OI	GLAND-BLIND	GLAND - BLIND
OJ		
OK		
OL		
OM		
ON		
OP		


**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
OQ		
OR		
OS		
OT		
OU		
OV		
OW		
OX		
OY		
OZ		

P1		
P2		
P3		
P4		
P5		
P6		
P7		
P8		
P9		
PA	PLUG-RND HD/THD	ROUND HEAD PLUG - THREADED
PB	PLUG-SQ HD/THD	SQUARE HEAD PLUG - THREADED
PC	PLUG-HEX HD/THD	HEX HEAD PLUG - THREADED
PD	PLUG-MJ	PLUG - MECHANICAL JOINT
PE	PLUG-HX SKT/THD	HEX SOCKET HEAD PLUG - THREADED
PF	PLUG-HEX HD/SKT	HEX HEAD PLUG - SOCKET
PG	PLUG-C SUNK/THD	CONTERSUNK HEAD PLUG - THREADED
PH	PLUG-CLEANOUT	PLUG - CLEANOUT
PJ	PLUG-BLIND	PLUG - BLIND
PK	PLUG-HEX/THD W/CHAIN	THREADED HEX PLUG W/CHAIN


**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
PL	60 BEND/9D-6"T	60° BEND / 9 DIAMETER - 6" TANGENT
PM	45 BEND/9D-6"T	45° BEND / 9 DIAMETER - 6" TANGENT
PN	30 BEND/9D-6"T	30° BEND / 9 DIAMETER - 6" TANGENT
PP	22.5 BEND/9D-6"T	22 1/2° BEND / 9 DIAMETER - 6" TANGENT
PQ	15 BEND/9D-6"T	15° BEND / 9 DIAMETER - 6" TANGENT
PR	90 BEND/10D-6"T	90° BEND / 10 DIAMETER - 6" TANGENT
PS	60 BEND/10D-6"T	60° BEND / 10 DIAMETER - 6" TANGENT
PT	45 BEND/10D-6"T	45° BEND / 10 DIAMETER - 6" TANGENT
PU	30 BEND/10D-6"T	30° BEND / 10 DIAMETER - 6" TANGENT
PV	22.5 BEND/10D-6"T	22 1/2° BEND / 10 DIAMETER - 6" TANGENT
PW	15 BEND/10D-6"T	15° BEND / 10 DIAMETER - 6" TANGENT
PX	90 BEND/11D-6"T	90° BEND / 11 DIAMETER - 6" TANGENT
PY	60 BEND/11D-6"T	60° BEND / 11 DIAMETER - 6" TANGENT
PZ	45 BEND/11D-6"T	45° BEND / 11 DIAMETER - 6" TANGENT

Q1	THERMOMETER CAP	THERMOMETER CAP
Q2		
Q3		
Q4		
Q5		
Q6		
Q7		
Q8		
Q9		

QA	CAP	CAP
QB	CAP-SKT	CAP - SOCKET
QC	CAP-BALL	CAP - BALL
QD	90 BEND/4D-12"T	90° BEND / 4 DIAMETER - 12" TANGENT
QE	60 BEND/4D-12"T	60° BEND / 4 DIAMETER - 12" TANGENT
QF	45 BEND/4D-12"T	45° BEND / 4 DIAMETER - 12" TANGENT


**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
QG	30 BEND/4D-12"T	30° BEND / 4 DIAMETER - 12" TANGENT
QH	22.5 BEND/4D-12"T	22 1/2° BEND / 4 DIAMETER - 12" TANGENT
QJ	15 BEND/4D-12"T	15° BEND / 4 DIAMETER - 12" TANGENT
QK	90 BEND/6D-12"T	90° BEND / 6 DIAMETER - 12" TANGENT
QL	60 BEND/5D-12"T	60° BEND / 5 DIAMETER - 12" TANGENT
QM	45 BEND/5D-12"T	45° BEND / 5 DIAMETER - 12" TANGENT
QN	30 BEND/5D-12"T	30° BEND / 5 DIAMETER - 12" TANGENT
QP	22.5 BEND/5D-12"T	22 1/2° BEND / 5 DIAMETER - 12" TANGENT
QQ	15 BEND/5D-12"T	15° BEND / 5 DIAMETER - 12" TANGENT
QR		
QS	60 BEND/6D-12"T	60° BEND / 6 DIAMETER - 12" TANGENT
QT	45 BEND/6D-12"T	45° BEND / 6 DIAMETER - 12" TANGENT
QU	30 BEND/6D-12"T	30° BEND / 6 DIAMETER - 12" TANGENT
QV	22.5 BEND/6D-12"T	22 1/2° BEND / 6 DIAMETER - 12" TANGENT
QW	15 BEND/6D-12"T	15° BEND / 6 DIAMETER - 12" TANGENT
QX	90 BEND/7D-12"T	90° BEND / 7 DIAMETER - 12" TANGENT
QY	60 BEND/7D-12"T	60° BEND / 7 DIAMETER - 12" TANGENT
QZ	45 BEND/7D-12"T	45° BEND / 7 DIAMETER - 12" TANGENT
R1	BASEBOARD TEE	BASEBOARD TEE
R2	SHORT TEE	SHORT TEE
R3	LONG TEE	LONG TEE
R4		
R5		
R6		
R7		
R8		
R9		

RA	REDUCER-CON	REDUCER - CONCENTRIC
RB	REDUCER-ECC	REDUCER - ECCENTRIC
RC	TEE-REDUCE	TEE - REDUCING


**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
RD	90 RDCG ELL	90° REDUCING ELBOW
RE	REDUCER-MJ X PE	REDUCER - MECHANICAL JOINT X PLAIN END
RF	REDUCER-PE X MJ	REDUCER - PLAIN END X MECHANICAL JOINT
RG	REDUCER-SWVL	REDUCER - SWIVEL
RH	REDUCER-GRV X THD	REDUCER-GROOVE X THREADED
RJ	ELBOW-1/3BEND	ELBOW - 1/3 BEND
RK	ELBOW-35DEG	35° ELBOW
RL	TEE-RDG BR/BXBXC	REDUCING BRANCH TEE - BEAD X BEAD X CONICAL
RM	TEE-RDG BR/BXCXB	REDUCING BRANCH TEE - BEAD X CONICAL X BEAD
RN	ELBOW-SPEC	ELBOW - SPEC
RP	ELBOW-SPEC	ELBOW - SPEC
RQ	TEE-RDG BR/BXCXC	REDUCING BRANCH TEE - BEAD X CONICAL X CONICAL
RR	TEE-RDG RN/BXBXC	REDUCING RUN TEE - BEAD X BEAD X CONICAL
RS	TEE-RDG RN/BXCXB	REDUCING RUN TEE - BEAD X CONICAL X BEAD
RT	TEE-RDG RN/BXCXC	REDUCING RUN TEE - BEAD X CONICAL X CONICAL
RU	TEE-RDG RUN	TEE - REDUCING RUN
RV	TEE-RDG/BALLXBDXSKT	REDUCING TEE - BALL X BEAD X SOCKET
RW	REDUCER-BALLXBEAD	REDUCER - BALL X BEAD
RX	REDUCER-SKTXBEAD	REDUCER - SOCKET X BEAD
RY	TEE-RDG/GRVXTHD	REDUCING TEE - GROOVE X THREADED
RZ	ELL-45/REDUCE	REDUCING 45° ELBOW

S1		
S2	22.5 BEND/8D-12"T	22 1/2° BEND / 8 DIAMETER - 12" TANGENT
S3	15 BEND/8D-12"T	15° BEND / 8 DIAMETER - 12" TANGENT
S4	NIPPLE-GRV X GRV	NIPPLE-GROOVE X GROOVE
S5	NIPPLE-THD X GRV	NIPPLE-THREADED X GROOVE
S6	NIPPLE-BW X CMPR	NIPPLE - BUTT WELD X COMPRESSION END
S7	NIPPLE-FLG X GROOVE	NIPPLE-FLANGE X GROOVE
S8		
S9		


**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
SA	SWAGE-BBE(CON)	SWAGE - BEVELED BOTH ENDS (CONCENTRIC)
SB	SWAGE-BLE/TSE(CON)	SWAGE - BEVELED LARGE END X THREADED SMALL END (CONCENTRIC)
SC	SWAGE-BLE/PSE(CON)	SWAGE - BEVELED LARGE END X PLAIN SMALL END (CONCENTRIC)
SD	SWAGE-BBE(ECC)	SWAGE - BEVELED BOTH ENDS (ECCENTRIC)
SE	SWAGE-BLE/TSE(ECC)	SWAGE - BEVELED LARGE END X THREADED SMALL END (ECCENTRIC)
SF	SWAGE-BLE/PSE(ECC)	SWAGE - BEVELED LARGE END X PLAIN SMALL END (ECCENTRIC)
SG	SWAGE-PBE(CON)	SWAGE - PLAIN BOTH END (CONCENTRIC)
SH	SWAGE-PLE/TSE(CON)	SWAGE - PLAIN LARGE END X THREADED SMALL END (CONCENTRIC)
SJ	SWAGE-PBE(ECC)	SWAGE - PLAIN BOTH ENDS (ECCENTRIC)
SK	SWAGE-PLE/TSE(ECC)	SWAGE - PLAIN LARGE END X THREADED SMALL END (ECCENTRIC)
SL	SWAGE-TBE(CON)	SWAGE - THREADED BOTH ENDS (CONCENTRIC)
SM	SWAGE-TBE(ECC)	SWAGE - THREADED BOTH ENDS (ECCENTRIC)
SN	SWAGE-TLE/PSE(CON)	SWAGE - THREADED LARGE END X PLAIN SMALL END (CONCENTRIC)
SP	SWAGE-TLE/BSE(CON)	SWAGE - THREADED LARGE END X BEVELED SMALL END (CONCENTRIC)
SQ	SWAGE-TLE/PSE(ECC)	SWAGE - THREADED LARGE END X PLAIN SMALL END (ECCENTRIC)
SR	SWAGE-TLE/BSE(ECC)	SWAGE - THREADED LARGE END X BEVELED SMALL END (ECCENTRIC)
SS	SWAGE-PLE/BSE(CON)	SWAGE - PLAIN LARGE END X BEVELED SMALL END (CONCENTRIC)
ST	SWAGE-PLE/BSE(ECC)	SWAGE - PLAIN LARGE END X BEVELED SMALL END (ECCENTRIC)
SU	ELL-22.5/STREET	ELBOW - 22.5° / STREET
SV	ELL-60/STREET	ELBOW - 60° / STREET
SW	ADAPTER-FPTXSPIGOT	ADAPTER - FEMALE PIPE THREAD X SPIGOT
SX	NIPPLE-GRV X THD	NIPPLE - GROOVE X THREADED
SY	45 BEND/11D-12"T	45° BEND / 11 DIAMETER - 12" TANGENT
SZ	30 BEND/11D-12"T	30° BEND / 11 DIAMETER - 12" TANGENT




**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
T1	TANGENTIAL TEE	TANGENTIAL TEE
T2	TEE-FLGXFLGXTHD	TEE - FLANGE X FLANGE X THREADED
T3		
T4		
T5		
T6		
T7		
T8		
T9		

TA	TEE	TEE
TB	TEE-RDG UNION	TEE - REDUCING UNION
TC	TEE-INST	INSTRUMENT TEE
TD	TEE-SAN	SANITARY TEE
TE	TEE-DBL/SAN	DOUBLE SANITARY TEE
TF	TEE-STREET	TEE - STREET
TG	TEE-SKTXSKTXFLG	TEE - SOCKET X SOCKET X FLANGE
TH	TEE-FLGXFLGXSKT	TEE - FLANGE X FLANGE X SOCKET
TI	LUG INST TEE	LUG - INSTRUMENT TEE
TJ	TEE-FLGXSKTXFLG	TEE - FLANGE X SOCKET X FLANGE
TK	TEE-SKTXFLGXSKT	TEE- SOCKET X FLANGE X SOCKET
TL	TEE-QLXQLXFLG	TEE - QUICK LOCK X QUICK LOCK X FLANGE
TM	TEE-FLGXQLXQL	TEE - FLANGE X QUICK LOCK X QUICK LOCK
TN	TEE-QLXFLGXFLG	TEE - QUICK LOCK X FLANGE X FLANGE
TO	TEE-INSTR-3" TK	INSTRUMENT TEE - 3" THICKNESS
TP	TEE - MJXPEXMJ	TEE - MECHANICAL JOINT X PLAIN END X MECHANICAL JOINT
TQ	TEE-FLGXFLGXQL	TEE- FLANGE X FLANGE X QUICK LOCK
TR	TEE-SHORT/STK	TEE - SHORT STACK
TS	TEE-SWVL	SWIVEL TEE
TT	TEE-SAN/TAPPED	TEE - SANITARY TAPPED
TU	TEE-SKTXFLGXFLG	TEE - SOCKET X FLANGE X FLANGE
TV	TEE-REDUCE/SAN	TEE - REDUCING SANITARY

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**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
TW	TEE-VENT	VENT TEE
TX	TEE-DBL RDG/SAN	TEE - DOUBLE REDUCING SANITARY
TY	TEE-BDXBDXCONL	TEE - BEAD X BEAD X CONICAL
TZ	TEE-BDXCONLXBD	TEE - BEAD X CONICAL X BEAD

U1	BKHD REDUCER	BULKHEAD REDUCER
U2	ADAPTER-SKT X CLAMP	ADAPTER - SOCKET X CLAMP
U3	BKHD CONNECTOR	BULKHEAD CONNECTOR
U4	ADAPTER	ADAPTER
U5		
U6		
U7		
U8		
U9		
UA	TRAP-P	TRAP - P
UB	TRAP-S	TRAP - S
UC	TRAP-RUNNING	TRAP - RUNNING
UD	TRAP-HALF	TRAP - HALF
UE	TRAP-HAND/HOLE	TRAP - HAND/HOLE
UF	P-TRAP W/CLEANOUT	P-TRAP W/CLEANOUT
UG	S-TRAP W/CLEANOUT	S-TRAP W/CLEANOUT
UH	SGL 2-WAY CLEANOUT	SINGLE 2-WAY CLEANOUT
UJ	P-TRAP/DP SEAL	P-TRAP - DEEP SEAL
UK	RUN TRAP-HUB VT	RUNNING TRAP W/HUB VENT
UL	RET-BEND W/CO	RETURN BEND W/CLEANOUT
UM	ELBOW-U-BEND W/OUTL	U-BEND W/ OUTLET
UN	BEND-OFFSET	BEND-OFFSET
UP	TRAP-SWIVEL/P	SWIVEL P-TRAP
UQ	PORT CONNECTOR	PORT CONNECTOR
UR	ELBOW-1/12BEND	ELBOW - 1/12° BEND


**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
US	ADAPTER-PLNXBEAD	ADAPTER - PLAIN END X BEADED
UT	TEE-SHORT OUTLET	TEE - SHORT OUTLET
UU	15 BEND/10D	15° BEND / 10 DIAMETER
UV	90 ELBOW/LT	90° LONG TANGENT ELBOW
UW	45 ELBOW/LT	45° LONG TANGENT ELBOW
UX	45 ELBOW/SR	45° SHORT RADIUS ELBOW
UY	ADAPTER-SKTXBEAD	
UZ		

V1	ADAPTER-TUBEX150FLG	ADAPTER - TUBEX150FLG
V2	ADAPTER-TUBEX300FLG	ADAPTER - TUBEX300FLG
V3	ADAPTER - 150LB FLG X BW	ADAPTER - 150 LB FLANGE X BUTT WELD
V4	ADAPTER - 300LB FLG X BW	ADAPTER - 300 LB FLANGE X BUTT WELD
V5	ADAPTER-1500FLGXBW	ADAPTER - 1500 LB FLANGE X BUTT WELD
V6		
V7		
V8		
V9		
VA	SPUD-WELD	SPUD - WELD
VB	CLEANOUT-W/PLUG	CLEANOUT - W/PLUG
VC	ADAPTER-FTGX SJ	ADAPTER - FITTING X SOLDER JOINT
VD	ADAPTER-SKTXSJ	ADAPTER - SOCKET X SOLDER JOINT
VE	VENT-PLUMBING	VENT - PLUMBING
VF	TEE-LT INLET	REDUCING TEE W/LEFT INLET
VG	ADAPTER-FLGXPE	ADAPTER - FLANGE X PLAIN END
VH	TEE-BDXCONLXCONL	TEE - BEAD X CONICAL X CONICAL
VJ	ADAPTER-CONLXBEAD	ADAPTER - CONICAL X BEAD


**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
VK	ELBOW-1/5BEND	ELBOW - 1/5° BEND
VL	TEE-BALLXSKTXBALL	TEE - BALL X SOCKET X BALL
VM	TEE-BALLXSKTXSKT	TEE - BALL X SOCKET X SOCKET
VN	ADAPTER-SKTXPE	ADAPTER - SOCKET X PLAIN END
VP	ADAPTER-BALLXPE	ADAPTER - BALL X PLAIN END
VQ	ADAPTER-EJ X SPG	ADAPTER - EJ X SPIGOT
VR	ADAPTER-MST X FST	ADAPTER - MALE STANDARD THREAD X FEMALE STANDARD THREAD
VS	TEE-CLEANOUT	TEE - CLEANOUT
VT	TEE-BALLXBALLXSKT	TEE - BALL X BALL X SOCKET
VU	TEE-BASE	TEE - BASE
VV	TEE-TAPPED	TEE - TAPPED
VX	30 BEND/1.5D	30° BEND / 1-1/2 DIAMETER
VY	15 BEND/1.5D	15° BEND / 1-1/2 DIAMETER
VY	ADAPTER-FLANGE	ADAPTER - FLANGE
VZ	ADAPTER-BEADXTHD	ADAPTER - BEAD X THREADED

W1	TEE-ADJ LKNUT BR	ADJUSTABLE LOCKNUT BRANCH TEE
W2	TEE-ADJ LKNUT RUN	ADJUSTABLE LOCKNUT RUN TEE
W3	90 ELL-ADJ LKNUT	ADJUSTABLE LOCKNUT 90° ELBOW
W4	45 ELL-ADJ LKNUT	ADJUSTABLE LOCKNUT 45° ELBOW
W5	SWIVEL CONNECTOR	SWIVEL CONNECTOR
W6	90 ELL-BANJO	BANJO 90° ELBOW
W7	TEE-BANJO	TEE - BANJO
W8		
W9		

WA	FLANGE-CLOSET	FLANGE - CLOSET
WB	ELL-TUBE/90 BKHD-UN	BULKHEAD UNION 90° TUBE ELBOW
WC	TEE-BKHD RUN	TEE - BULKHEAD RUN
WD	ELL-TUBE/45 BKHD-UN	BULKHEAD UNION 45° TUBE ELBOW


**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
WE	LOCKNUT-BKHD	BULKHEAD LOCK NUT
WF	TEE-SWVL/BR	TEE- SWIVEL/BRANCH
WG	TEE-SWVL/RUN	TEE - SWIVEL/RUN
WH	CONNECTOR-LONG	CONNECTOR-LONG
WJ	TEE-MALE RUN	TEE - MALE RUN
WK	TEE-MALE/BR	TEE - MALE BRANCH
WL	UNION-LOCATOR	UNION - LOCATOR
WM	TEE-ATWXSCTXATW	TEE - AUTOMATIC TUBE WELD X SOCKET X AUTOMATIC TUBE WELD
WN	ADAPTER-UNION	ADAPTER-UNION
WP	90 BEND/5D	90° BEND / 5 DIAMETER
WQ	60 BEND/5D	60° BEND / 5 DIAMETER
WR	45 BEND/5D	45° BEND / 5 DIAMETER
WS	22.5 BEND/5D	22 1/2° BEND / 5 DIAMETER
WT	PIPE-TAILPIECE	PIPE-TAILPIECE
WU	ADAPTER-FNPTXMBS	ADAPTER - FEMALE NOMINAL PIPE THREAD X MALE BRITISH STANDARD PIPE
WV	ADAPTER-FBSPXMNPT	ADAPTER - FEMALE BRITISH STANDARD PIPE X MALE NOMINAL PIPE THREAD
WW	GLAND-RETAINER	GLAND - RETAINER
WX	ADAPTER-SCTXSPIGOT	ADAPTER - SOCKET X SPIGOT
WY	15 BEND/5D	15° BEND / 5 DIAMETER
WZ	DISTANCE PIECE	DISTANCE PIECE

Y1	WYE-45/STREET	WYE - 45/STREET
Y2	WYE-RDG 45/STREET	REDUCING WYE - 45° STREET
Y3	TEE-BWXBWXCLP	TEE - BUTT WELD X BUTT WELD X CLAMP
Y4	TEE-BWXCLPXBW	TEE - BUTT WELD X CLAMP X BUTT WELD
Y5	TEE-CLPXCLPXBW	TEE - CLAMP X CLAMP X BUTT WELD
Y6	TEE-BWXCLPXCLP	TEE - BUTT WELD X CLAMP X CLAMP
Y7		
Y8		
Y9		

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**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
YA	WYE (Y)	WYE (Y)
YB	DBL 60 Y	DOUBLE 60° WYE
YC	DBL 45 Y	DOUBLE 45° WYE
YD	REVERSE Y	REVERSE WYE
YE	DBL 30 Y	DOUBLE 30° WYE
YF	COMB Y	COMBINATION WYE
YG	Y-BRANCH/REDUCE	Y-BRANCH / REDUCE
YH	RDCG COMB Y	REDUCING COMBINATION WYE
YJ	DBL RDCG COMB Y	DOUBLE REDUCING COMINATION WYE
YK	TRUE WYE-TY	TRUE WYE - TY
YL	Y - MJXPEXMJ	WYE - MECHANICAL JOINT X PLAIN END X MECHANICAL JOINT
YM	DBL RDCG 45 Y	DOUBLE REDUCING 45° WYE
YN	DBL COMB Y	DOUBLE COMBINATION WYE
YP	TAP Y	TAP Y
YQ	DOUBLE TAP Y	DOUBLE TAP Y
YR	TEE-PEXFLGXPE	TEE - PLAIN END X FLANGE X PLAIN END
YS	TEE-PEXFLGXFLG	TEE - PLAIN END X FLANGE X FLANGE
YT	TEE-FLGXPEXFLG	TEE - FLANGE X PLAIN END X FLANGE
YU	90 BEND/10D-12"T	90° BEND / 10 DIAMETER - 12" TANGENT
YV	60 BEND/10D-12"T	60° BEND / 10 DIAMETER - 12" TANGENT
YW	45 BEND/10D-12"T	45° BEND / 10 DIAMETER - 12" TANGENT
YX	30 BEND/10D-12"T	30° BEND / 10 DIAMETER - 12" TANGENT
YY	22.5 BEND/10D-12"T	22 1/2° BEND / 10 DIAMETER - 12" TANGENT
YZ	15 BEND/10D-12"T	15° BEND / 10 DIAMETER - 12" TANGENT

Z1	1-RIB	1-RIB
Z2	2-RIB	2-RIB
Z3		
Z4		
Z5		


**IV. Covestro Catalog Shape Table**

Shape Code	Abbreviation	Description
Z6		
Z7		
Z8		
Z9		

ZA	SLEEVE-CUT/IN	SLEEVE - CUT/IN
ZB	CONNECTOR	CONNECTOR
ZC	90 SWVL/ELL-SR(LT)	90° SWIVEL ELBOW - SHORT RADIUS LIGHT
ZD	90 SWVL/ELL-SR(HVY)	90° SWIVEL ELBOW - SHORT RADIUS HEAVY
ZE	90 SWVL/ELL-LR(LT)	90° SWIVEL ELBOW - LONG RADIUS LIGHT
ZF	90 SWVL/ELL-LR(HVY)	90° SWIVEL ELBOW - LONG RADIUS HEAVY
ZG	45 SWVL/ELL	45° SWIVEL ELBOW
ZH	90 M SWVL/ELL	90° MALE SWIVEL ELBOW
ZJ	90 F SWVL/ELL	90° FEMALE SWIVEL ELBOW
ZK	90 M/ELL-EXT	90° MALE ELBOW - EXTERNAL
ZL	90 M/ELL-LG EXT	90° MALE ELBOW - LONG EXTERNAL
ZM	90 M/ELL-XLG EXT	90° MALE ELBOW - EXTRA LONG EXTERNAL
ZN	FERRULE-STD	STANDARD FERRULE
ZP	ELBOW-1/8/L-NUT	LOCKNUT 1/8 ELBOW
ZQ	ELBOW-1/4/L-NUT	LOCKNUT 1/4 ELBOW
ZR	ELL-90/SWEEP	90° SHORT SWEEP ELBOW
ZS	SLEEVE-SOLID	SOLID SLEEVE
ZT	SLEEVE-TRANS	TRANSITION SLEEVE
ZU	UNION-SWVL	SWIVEL UNION
ZV	ELL-90/BASE BEND	BASE 1/4 BEND
ZW	FITTING-WALL PIPE	WALL PIPE
ZX	WALL PIPE-MJXFLG	WALL PIPE - MECHANICAL JOINT X FLANGE
ZY	WALL PIPE-FLGXPE	WALL PIPE - FLANGE X PLAIN END
ZZ	SLEEVE-TAPPING	SLEEVE-TAPPING