



Non-Gasketed Single Wall Round Catalog



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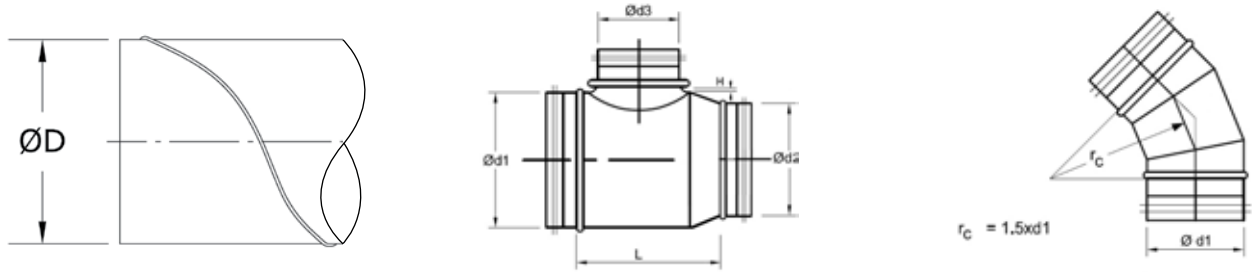
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Nomenclature Definitions



- Nominal inside diameter (duct size)..... ØD
- Nominal outside diameter (fitting size)..... $\text{Ød1}, \text{Ød2}, \text{Ød3}, \text{Ød4}$
- Material thickness (gauge)..... t
- Installed height..... H
- Center line radius..... r_c
- Installed length..... L
- Fitting slip dimension e
- All measurements in inches (in or ") unless otherwise noted
- All angles in degrees ($^\circ$)

Smart Part Anatomy

Nomenclature / Abbreviations

PRODUCT	Designation And Description	PRODUCT	Designation And Description
DUCT	SC = Corrugated Single Wall Round Spiral Duct SN - Noncorrugated Single Wall Round Spiral Duct	ELBOWS	E = 1.5 Radius Elbow Stamped Or With 3 - 5 Gores ER = 1.0 Radius Elbow Stamped Or With 3 - 4 Gores
REDUCERS	RC = Reducer Concentric RCF = Reducer Concentric RE = Reducer Ecentric REF = Reducer Ecentric	END CAPS	ED = End Duct EF = End Fitting
COUPLINGS	CD = Coupling Duct CF = Coupling Fitting	TAKE-OFFS	PT = Straight Take Off PR = Radius Take Off
TEES	TBH = Bull Head Tee TRBH = Reducing Bull Head Tee TB = Tee With Boot Tap TRB = Reducing Tee With Boot Tap TC = Tee With Conical Tap TRC = Reducing Tee With Conical Tap TS = Straight Tee TRS = Reducing Straight Tee	CROSSING TEES	XB = Boot Style Crossing Tee XRB = Reducing Boot Style Crossing Tee XC = Conical Crossing Tee XRC = Reducing Conical Crossing Tee XS = Crossing Tee XRS = Reducing Crossing Tee XV = Lateral Crossing Tee XRV = Reducing Lateral Crossing Tee
LATERAL TEES	TV = Tee With Lateral Tap TRV = Reducing Tee With Lateral Tap	Y-BRANCH	Y = Y Branch
TAPS	PB = Boot Tap PBF = Boot Tap Flat PS = Press Tap PV = Lateral Tap PVF = Lateral Tap Flat PC = Conical Tap PCF = Conical Tap Flat	DAMPERS	DS = Damper DT = Damper DSIL = Combination Damper with Take-Off DSILR = Combination Damper with Take-Off DSPS = Combination Damper with Saddle Tap

REQUIRED FOR ORDERING

OPTIONAL FOR ORDERING SMACNA STANDARDS PROVIDED IF NOT GIVEN

CONNECTION	DIAMETER (INCH)	PART DESIGNATION	MATERIAL	GAUGE
N= Nongasketed	Diameter	See Chart Above	G9 = G90 Galvanized S4 = S304 Stainless S6 = S316 Stainless GN = Galvanneal / Paint Grip AL = Aluminum	Gauge

Eg = U

Eg = 16

Eg = CD

Eg = G9

Eg = 24



= 16" Diameter Coupling Duct In Galvanized 24 Gauge

Rectangular to Round Conversion

b/a	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
3	3.8	4.6	5.2	5.7	6.2	6.6	7.0	7.3	7.7	8.0	8.3	8.5	8.8	9.0	9.3	9.5	9.7	9.9	10.1
4	4.4	5.3	6.1	6.7	7.3	7.8	8.3	8.7	9.1	9.5	9.8	10.1	10.4	10.7	11.0	11.3	11.5	11.8	12.0
5	4.9	6.0	6.9	7.6	8.3	8.9	9.4	9.9	10.3	10.8	11.2	11.5	11.9	12.2	12.6	12.9	13.2	13.5	13.8
6	5.3	6.6	7.6	8.4	9.1	9.8	10.4	11.0	11.5	12.0	12.4	12.8	13.2	13.6	14.0	14.4	14.7	15.0	15.3
7	5.7	7.1	8.2	9.1	9.9	10.7	11.3	11.9	12.5	13.0	13.5	14.0	14.5	14.9	15.3	15.7	16.1	16.5	16.8
8	6.1	7.6	8.7	9.8	10.7	11.5	12.2	12.9	13.5	14.1	14.6	15.1	15.6	16.1	16.5	17.0	17.4	17.8	18.2
9	6.4	8.0	9.3	10.4	11.3	12.2	13.0	13.7	14.4	15.0	15.6	16.2	16.7	17.2	17.7	18.2	18.6	19.0	19.5
10	6.7	8.4	9.8	10.9	12.0	12.9	13.7	14.5	15.2	15.9	16.5	17.1	17.7	18.3	18.8	19.3	19.8	20.2	20.7
11	7.0	8.8	10.2	11.5	12.6	13.5	14.4	15.3	16.0	16.8	17.4	18.1	18.7	19.3	19.8	20.4	20.9	21.4	21.8
12	7.3	9.1	10.7	12.0	13.1	14.2	15.1	16.0	16.8	17.6	18.3	19.0	19.6	20.2	20.8	21.4	21.9	22.4	22.9
13	7.6	9.5	11.1	12.4	13.7	14.7	15.7	16.7	17.5	18.3	19.1	19.8	20.5	21.1	21.8	22.4	22.9	23.5	24.0
14	7.8	9.8	11.5	12.9	14.2	15.3	16.4	17.3	18.2	19.1	19.9	20.6	21.3	22.0	22.7	23.3	23.9	24.5	25.0
15	8.0	10.1	11.8	13.3	14.6	15.8	16.9	17.9	18.9	19.8	20.6	21.4	22.1	22.9	23.5	24.2	24.8	25.4	26.0
16	8.3	10.4	12.2	13.7	15.1	16.4	17.5	18.5	19.5	20.4	21.3	22.1	22.9	23.7	24.4	25.1	25.7	26.4	27.0
17	8.5	10.7	12.5	14.1	15.6	16.8	18.0	19.1	20.1	21.1	22.0	22.9	23.7	24.4	25.2	25.9	26.6	27.2	27.9
18	8.7	11.0	12.9	14.5	16.0	17.3	18.5	19.7	20.7	21.7	22.7	23.5	24.4	25.2	26.0	26.7	27.4	28.1	28.8
19	8.9	11.2	13.2	14.9	16.4	17.8	19.0	20.2	21.3	22.3	23.3	24.2	25.1	25.9	26.7	27.5	28.2	28.9	29.6
20	9.1	11.5	13.5	15.2	16.8	18.2	19.5	20.7	21.9	22.9	23.9	24.9	25.8	26.6	27.5	28.3	29.0	29.8	30.5
22	9.5	12.0	14.1	15.9	17.6	19.1	20.4	21.7	22.9	24.0	25.1	26.1	27.1	28.0	28.9	29.7	30.5	31.3	32.1
24	9.8	12.4	14.6	16.5	18.3	19.9	21.3	22.7	23.9	25.1	26.2	27.3	28.3	29.3	30.2	31.1	32.0	32.8	33.6
26	10.1	12.8	15.1	17.1	19.0	20.6	22.1	23.5	24.9	26.1	27.3	28.4	29.5	30.5	31.5	32.4	33.3	34.2	35.1
28	10.4	13.2	15.6	17.7	19.6	21.3	22.9	24.4	25.8	27.1	28.3	29.5	30.6	31.7	32.7	33.7	34.6	35.6	36.4
30	10.7	13.6	16.1	18.3	20.2	22.0	23.7	25.2	26.6	28.0	29.3	30.5	31.7	32.8	33.9	34.9	35.9	36.8	37.8
32	11.0	14.0	16.5	18.8	20.8	22.7	24.4	26.0	27.5	28.9	30.2	31.5	32.7	33.9	35.0	36.1	37.1	38.1	39.0
34	11.3	14.4	17.0	19.3	21.4	23.3	25.1	26.7	28.3	29.7	31.1	32.4	33.7	34.9	36.1	37.2	38.2	39.3	40.3
36	11.5	14.7	17.4	19.8	21.9	23.9	25.7	27.4	29.0	30.5	32.0	33.3	34.6	35.9	37.1	38.2	39.4	40.4	41.5
38	11.8	15.0	17.8	20.2	22.4	24.5	26.4	28.1	29.8	31.3	32.8	34.2	35.6	36.8	38.1	39.3	40.4	41.5	42.6
40	12.0	15.3	18.2	20.7	22.9	25.0	27.0	28.8	30.5	32.1	33.6	35.1	36.4	37.8	39.0	40.3	41.5	42.6	43.7
42	12.3	15.6	18.5	21.1	23.4	25.6	27.6	29.4	31.2	32.8	34.4	35.9	37.3	38.7	40.0	41.3	42.5	43.7	44.8
44	12.5	15.9	18.9	21.5	23.9	26.1	28.1	30.0	31.8	33.5	35.1	36.7	38.1	39.5	40.9	42.2	43.5	44.7	45.8
46	12.7	16.2	19.3	21.9	24.4	26.6	28.7	30.6	32.5	34.2	35.9	37.4	38.9	40.4	41.8	43.1	44.4	45.7	46.9

$$D_e = 1.30 [(ab)^{0.625}/(a+b)^{0.250}]$$

- a = length of one side of rectangular duct (inch)
- b = length of adjacent side of rectangular duct (inch)
- D_e = round equivalent of rectangular duct for equal friction and capacity (inch)

Example

Convert rectangular duct 22" x 12" to equivalent round

a = 22, b = 12; from above table

D_e = 17.6, use 18" diameter

Source: 2017 ASHRAE Fundamentals, p. 21.8



Specifications

MATERIAL (*) not available in pressed construction

- Galvanized steel conforming to ASTM standards A653 and A924
- Stainless steel type 304L conforming to ASTM standard A240*
- Stainless steel type 316L conforming to ASTM standard A240*
- Aluminum 3003-H14 conforming to ASTM standard B209*

SURFACE FINISH

- Galvanized steel (galvanized in accordance with latest SMACNA HVAC Duct Construction Standards).
- Stainless steel type 304L - 2B Mill Finish (#4 finish available upon request)
- Stainless steel type 316L - 2B Mill Finish (#4 finish available upon request)
- ProCoat™ (outside only) or ProCoat™ Plus (inside and outside) on duct and/or fittings
 - Standard color = white (additional color options available)
 - Average coating thickness of 4 mils (0.004 inch)
 - ProCoat™ to meet or exceed 500 hour Salt Spray Test per ASTM B117
 - ProCoat™ Plus to meet or exceed 3,000 hour Salt Spray Test per ASTM B117
- Antimicrobial - EHG AM™ is EPA registered for HVAC applications as a water based microbistatic formula designed for control growth of microorganisms.

THICKNESS

Material thickness constructed from galvanized steel in accordance with the latest SMACNA's HVAC Duct Construction Standards for +10" water gauge pressure. **Consult factory for negative pressure systems.**

CONSTRUCTION

- A. Duct is of spiral lock seam construction with a mechanically formed seam locking indentation evenly spaced along the spiral seam. All spiral duct 8" diameter and larger shall incorporate multiple corrugations between spiral seams.
- B. Fittings shall be manufactured using one or more of the following construction methods:
 - Overlapped edges stitch welded along the entire length of the fitting
 - Standing seam gore locked and internally sealed
 - Button punched and internally sealed
 - Elbows 3" through 12" diameter will be die stamped and continuously stitch welded.

CONNECTIONS

Fitting ends shall be sized to slip-fit into spiral duct of the same nominal size. Fitting to fitting connections shall be made by use of duct size "CF" couplings. Duct to duct connections require fitting size "CD" couplings.

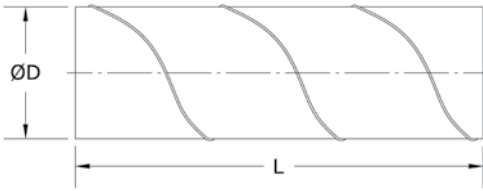
JOINT SEALING

All joints must be sealed by the installer during the installation process. The type of sealant used as well as the method and level of application should be as directed by the specification and in accordance with the sealant manufacturer's published installation instructions.

Tolerance, Gauge, & e-dimensions

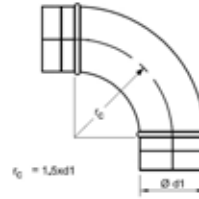
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Tolerances for Spiral Duct



Ø D (inch)	Ø D Tolerance (inch) min.-max.	t* (gauge)	t** (gauge)
3	2.950 - 2.969	28	28
4	3.950 - 3.969	28	28
5	4.950 - 4.969	28	28
6	5.950 - 5.969	28	28
7	6.950 - 6.972	28	28
8	7.950 - 7.972	28	28
9	8.950 - 8.972	28	28
10	9.950 - 9.976	28	28
11	10.950 - 10.976	28	28
12	11.950 - 11.976	28	28
14	13.950 - 13.976	28	28
16	15.936 - 15.969	26	26
18	17.936 - 17.969	26	26
20	19.936 - 19.972	26	26
22	21.936 - 21.972	26	26
24	23.936 - 23.976	26	26
26	25.936 - 25.976	24	24
28	27.934 - 27.976	24	24
30	29.924 - 29.969	24	24
32	31.924 - 31.976	24	24
34	33.924 - 33.976	24	24
36	35.924 - 35.988	24	24
38	37.912 - 37.976	24	24
40	39.912 - 39.976	24	24
42	41.912 - 41.976	24	24
44	43.912 - 43.988	22	22
46	45.912 - 45.998	22	22
48	47.912 - 47.988	22	22
50	49.912 - 49.988	22	22
52	51.913 - 51.992	22	22
54	53.913 - 53.992	22	22
56	55.909 - 55.992	22	22
58	57.909 - 57.992	22	22
60	59.909 - 59.992	22	22

Tolerances for Fittings



Ødx (inch)	Ødx Tolerance (inch) min.- max.	t* (gauge)	Die Stamped t** (gauge)	Fabricated t** (gauge)	e (inch)
3	2.902 - 2.917	28	24	-----	1.625
4	3.902 - 3.917	28	24	-----	1.625
5	4.902 - 4.917	28	24	-----	1.625
6	5.898 - 5.917	28	24	-----	1.625
7	6.894 - 6.913	28	24	-----	1.625
8	7.890 - 7.913	28	24	-----	1.625
9	8.886 - 8.909	28	24	-----	1.625
10	9.882 - 9.909	28	24	-----	2.375
11	10.882 - 10.909	28	24	-----	2.375
12	11.882 - 11.909	28	24	-----	2.375
14	13.878 - 13.909	28	-----	24	2.375
16	15.862 - 15.898	26	-----	24	3.125
18	17.862 - 17.898	26	-----	24	3.125
20	19.858 - 19.898	24	-----	24	3.125
22	21.858 - 21.898	24	-----	24	3.125
24	23.854 - 23.898	24	-----	24	3.125
26	25.854 - 25.898	22	-----	22	3.125
28	27.846 - 27.894	22	-----	22	4.000
30	29.839 - 29.886	22	-----	22	4.000
32	31.835 - 31.886	22	-----	22	4.000
34	33.835 - 33.886	22	-----	22	4.000
36	35.831 - 35.886	22	-----	22	4.000
38	37.819 - 37.874	22	-----	20	4.000
40	39.819 - 39.874	22	-----	20	4.750
42	41.819 - 41.874	22	-----	20	4.750
44	43.815 - 43.874	20	-----	20	4.750
46	45.815 - 45.874	20	-----	20	4.750
48	47.815 - 47.874	20	-----	20	4.750
50	49.815 - 49.874	20	-----	20	4.750
52	51.811 - 51.874	20	-----	20	4.750
54	53.811 - 53.874	20	-----	20	4.750
56	55.799 - 57.862	20	-----	20	4.750
58	57.799 - 57.862	20	-----	20	4.750
60	59.795 - 59.862	22	-----	20	4.750

* In accordance with the latest SMACNA HVAC Duct Construction Standards for +10" wg
 ** EHG Manufacturing Standard
 "-----" = Not currently available

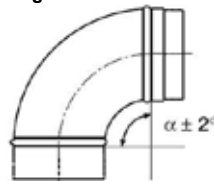
Length Tolerances

Length - L, H, e, D, d (inch)	Tolerances (inch)
1 - 10	± 1/8
12 - 16	± 3/16
18 - 28	± 1/4
30 - 50	± 1/2
52 - 60	± 3/4

Weight Tolerance ±10%

Thickness Tolerance ±10%

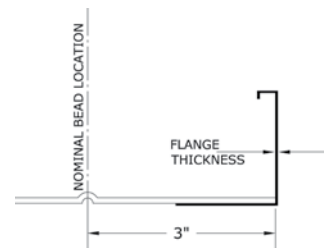
Angular Tolerance



Fitting Dimension For Flange Connections

Our products are designed with a male/female slip connections. For connections, refer to the e-dimension listed in the chart above.

Factory-applied Flange	
Collar Length	Make-up Length
3"	3" + flange thickness



Surface/Finish

Stainless steel fittings provided with a 2B mill finish.

Coated products have a minimum surface hardness of 2H when tested per ASTM D33-63-92A with an average thickness of 4 mils. ProCoat™ (OD only) or ProCoat™ Plus (ID & OD) coated duct.



Description

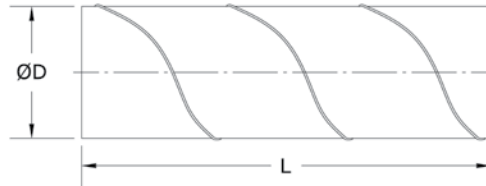
corrugated spiral lock seam duct

- SMACNA RL-1 spiral seam
- evenly spaced integral seam locking feature
- multiple corrugations on all duct 8" - 60" all other diameters available upon request
- standard lengths: 120"
- built in accordance with the latest SMACNA HVAC Duct Construction Standard for G9, GN, S4 & S6 = +10 iwg, AL = +2 iwg
- available lengths:
 - G90 and GN : 12" - 240"
 - S4 and S6 : 12" - 240"
 - AL : 12" - 120"

Description

non corrugated spiral lock seam duct

- SMACNA RL-1 spiral seam
- evenly spaced integral seam locking feature
- available in diameters 3"- 60" all other diameters available upon request
- standard lengths: 120"
- built in accordance with the latest SMACNA HVAC Duct Construction Standard for G9, GN, S4 & S6 = +10 iwg, AL = +2 iwg
- available lengths:
 - G90 and GN : 12" - 240"
 - S4 and S6 : 12" - 240"
 - AL - 12" : 120"



Ød	Ød	Length	Material
8" - 60" 3" - 60"	SC = Spiral Pipe Corrugated SN = Spiral Pipe Non-corrugated	12" - 240" AL Only - 12" - 120"	G9 = G90 Galvanized S4 = S304 Stainless S6 = S316 Stainless GN = Galvanneal / Paint Grip AL = Aluminum

16

SC

120

G9

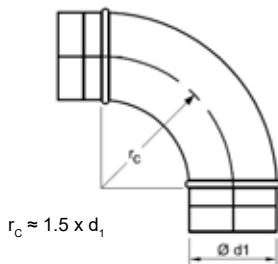
Smart Part Number: **16SC120G9**



Description

1.5" radius 90° elbow

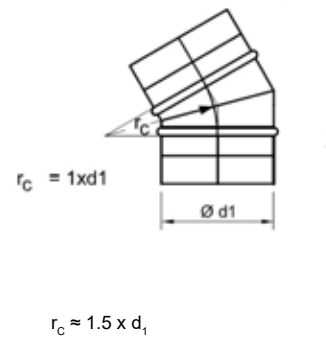
- die stamped
- continuous stitch welded
- rolled edges
- galvanized steel only
- available in diameters 3" - 12"
note: 11" diameter is fabricated



Description

1.5" radius 90° elbow

- 5-piece gored
- internally sealed
- available in diameters 14" - 48"
note: E 90 elbows 50" diameter and larger supplied as two E 45 elbows and a CF coupling



Order Example

Connection	Ød1	Designation	Angle	Material	Gauge
N= Non-Gasketed	3" - 12" = Stamped 14" - 48" = Gored	E = Elbow	90	G9	22,24

N

16

E

90

G9

24

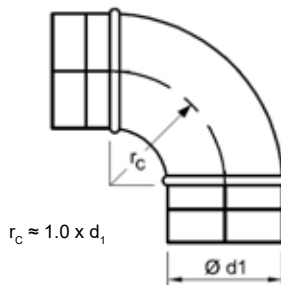
Smart Part Number: **N16E90G924**



Description

1.0" radius 90° elbow

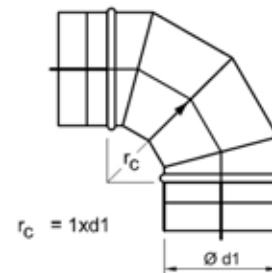
- die stamped
- continuous stitch welded
- rolled edges
- galvanized steel only
- available in diameters 3" - 12"
note: 11" diameter is fabricated



Description

1.0" radius 90° elbow

- 4-piece gored
- internally sealed
- available in diameters 14" - 48"
note: ER 90 elbows 50" diameter and larger supplied as two ER 45 elbows and a CF coupling



Order Example

Connection	Ød1	Designation	Angle	Material	Gauge
N= Non-Gasketed	3" - 12" = Stamped 14" - 48" = Gored	ER = Elbow	90	G9	22,24

N

16

ER

90

G9

24

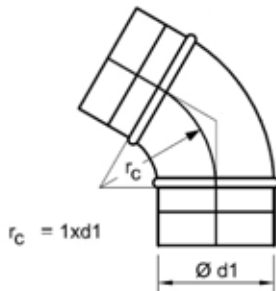
Smart Part Number: **N16ER90G924**



Description

1.0" radius 60° elbow

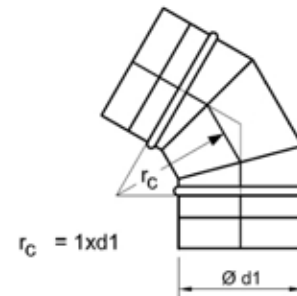
- die stamped
- continuous stitch welded
- rolled edges
- galvanized steel only
- available in diameters 3" - 12"
note: 11" diameter is fabricated



Description

1.0" radius 60° elbow

- 3-piece gored
- internally sealed
- available in diameters 14" - 48"



Order Example

Connection	Ød1	Designation	Angle	Material	Gauge
N= Non-Gasketed	3" - 12" = Stamped 14" - 48" = Gored	ER = Elbow	60	G9	22,24

N

16

ER

60

G9

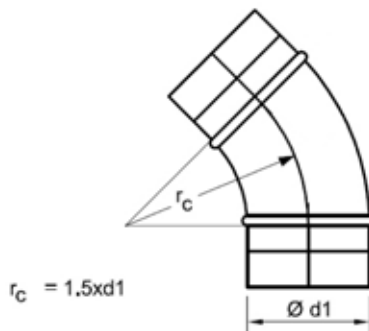
24

Smart Part Number: **N16ER60G924**



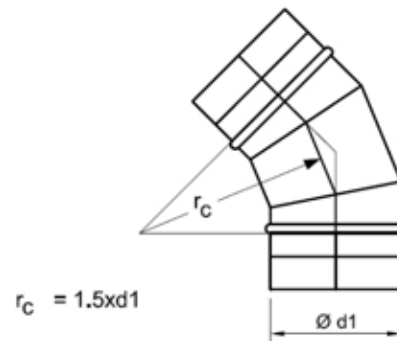
Description
1.5" radius 45° elbow

- die stamped
- continuous stitch welded
- rolled edges
- galvanized steel only
- available in diameters 3" - 12"
note: 11" diameter is fabricated



Description
1.5" radius 45° elbow

- 3-piece gored
- internally sealed
- available in diameters 14" - 48"



Order Example

Connection	Ød1	Designation	Angle	Material	Gauge
N= Non-Gasketed	3" - 12" = Stamped 14" - 48" = Gored	E = Elbow	45	G9	22,24

N

16

E

45

G9

24

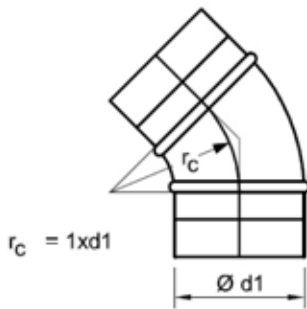
Smart Part Number: **N16E45**



Description

1.0" radius 45° elbow

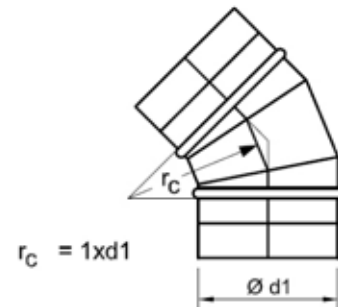
- die stamped
- continuous stitch welded
- rolled edges
- galvanized steel only
- available in diameters 3" - 12"
note: 11" diameter is fabricated



Description

1.0" radius 45° elbow

- 3-piece gored
- internally sealed
- available in diameters 14" - 48"



Order Example

Connection	Ød1	Designation	Angle	Material	Gauge
N= Non-Gasketed	3" - 12" = Stamped 14" - 48" = Gored	ER = Elbow	45	G9	22,24

N

16

ER

45

G9

24

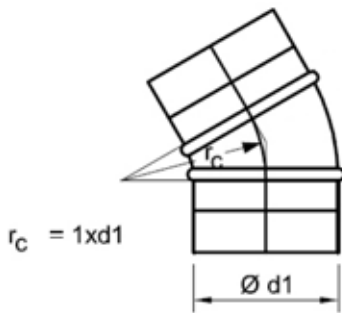
Smart Part Number: **N16ER45G924**



Description

1.0" radius 30° elbow

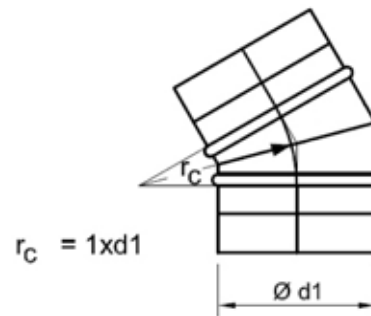
- die stamped
- continuous stitch welded
- rolled edges
- galvanized steel only
- available in diameters 3" - 12"
note: 11" diameter is fabricated



Description

1.0" radius 30° elbow

- 2-piece gored
- internally sealed
- available in diameters 14" - 48"



Order Example

Connection	Ød1	Designation	Angle	Material	Gauge
N= Non-Gasketed	3" - 12" = Stamped 14" - 48" = Gored	ER = Elbow	30	G9	22,24

N

16

ER

30

G9

24

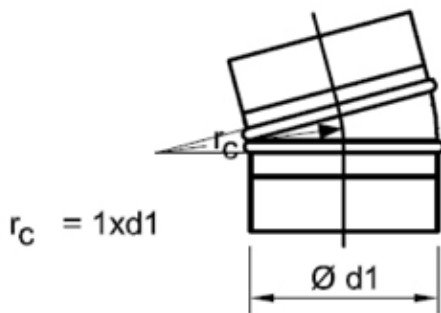
Smart Part Number: **N16ER30G924**



Description

1.0" radius 15° elbow

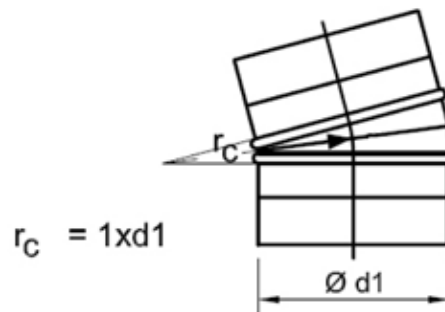
- die stamped
- continuous stitch welded
- rolled edges
- galvanized steel only
- available in diameters 3" - 12"
note: 11" diameter is fabricated



Description

1.0" radius 15° elbow

- 2-piece gored
- internally sealed
- available in diameters 14" - 48"



Order Example

Connection	Ød1	Designation	Angle	Material	Gauge
N= Non-Gasketed	3" - 12" = Stamped 14" - 48" = Gored	ER = Elbow	15	G9	22,24

N

16

ER

15

G9

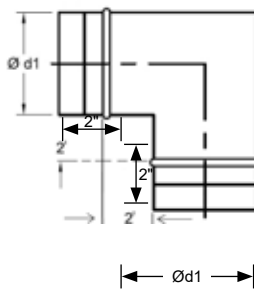
24

Smart Part Number: **N16ER15G924**



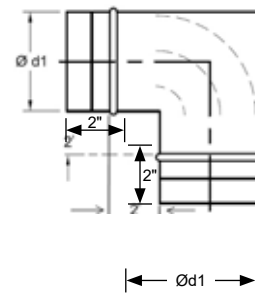
Description
mitered elbow

- rolled edge
- 2" standard throat length
- available in diameters 4"- 60"



Description
mitered elbow with vanes

- rolled edge
- 2" standard throat length
- turning vanes evenly spaced
- available in diameters 4"- 60"
number of vanes vary by diameter
 - Ø 4"-10" = 2 vanes
 - Ø 12"-14" = 3 vanes
 - Ø 16"-20" = 4 vanes
 - Ø 22"-60" = 5 vanes

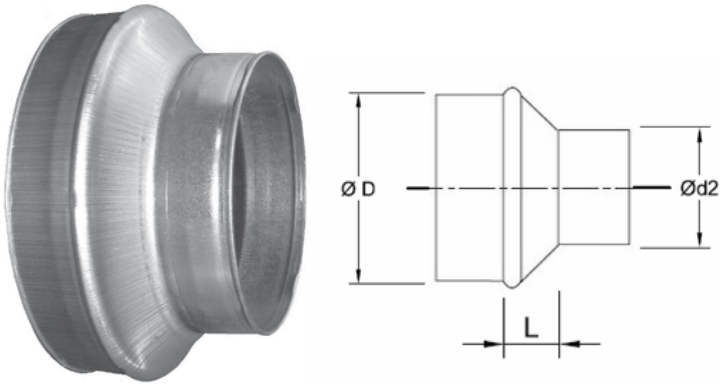


Order Example

Connection	Dia (Inch)	Designation	Material	Gauge
N= Non-Gasketed	4" - 60"	EM = Mitered Elbow EMV = Mitered with vanes	G9	22,24

N 16 EM G9 24

Smart Part Number: **N16EMG924**

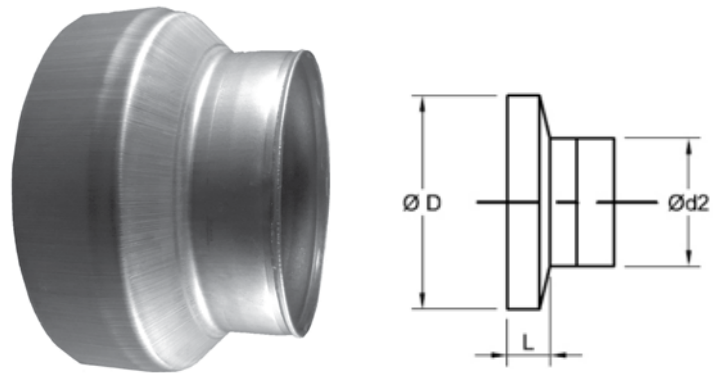


Description
concentric reducer

- galvanized construction only

Dimension (die stamped)

Ød1 inch	Ød2 inch	L inch
4	3	¾
5	3	1
5	4	⅞
6	3	1¼
6	4	1¼
6	5	¾
7	4	2
7	5	1½
7	6	1
8	4	2¼
8	5	1⅝
8	6	1¼
8	7	¾
9	7	2⅞
9	8	1⅞
10	6	2¼
10	7	1⅞
10	8	1⅞
10	9	⅝
12	8	2⅞
12	10	1⅝
14	10	2
14	12	1⅞



Description
concentric reducer

- ØD = duct size slips over fitting end
- galvanized construction only

Dimension (die stamped)

Ød1 inch	Ød2 inch	L inch
4	3	2⅞
5	3	2⅞
5	4	2⅞
6	3	3⅞
6	4	2⅞
6	5	2⅞
7	4	3½
7	5	3
7	6	2½
8	4	3¼
8	5	3¼
8	6	2⅞
8	7	2⅞
9	7	3¼
9	8	2¾
10	6	4⅞
10	7	3¼
10	8	2¾
10	9	2¼
12	10	2¾
14	10	4¾
14	12	3⅞

Order Example

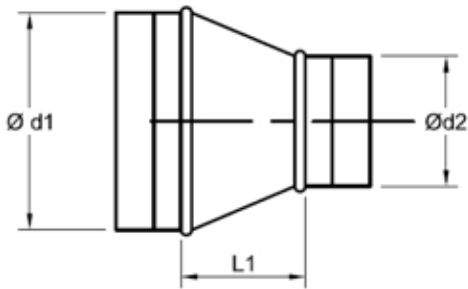
Connection	Ød1 / ØD	Designation	Ød2	Material	Gauge
N= Non-Gasketed	Diameter	RC = Concentric Reducer Male RCF = Concentric Reducer Female	3" - 12"	G9	24
N	14	RC	12	G9	24

Smart Part Number: **N14RC12G924**



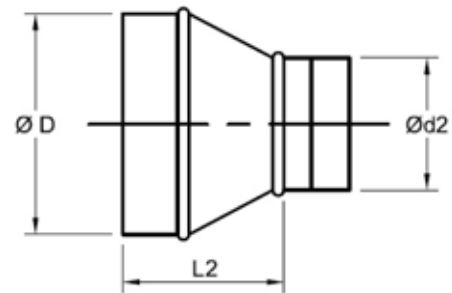
Description
fabricated concentric reducer

- $L1 = (\text{Ø}d1 - \text{Ø}d2)^*$
(*) minimum 4"



Description
fabricated concentric reducer

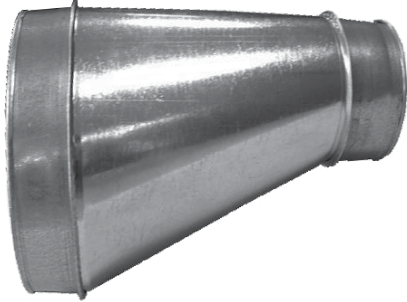
- ØD end slips onto fitting end
- $L1 = (\text{Ø}D - \text{Ø}d2)^* + e$ dimension (page 11)
(*) minimum 4"



Order Example

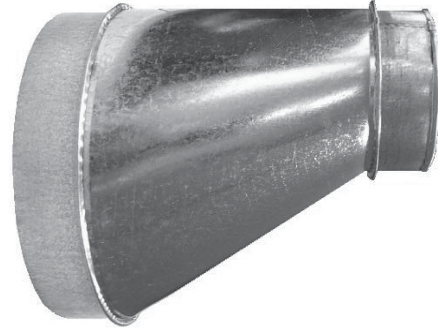
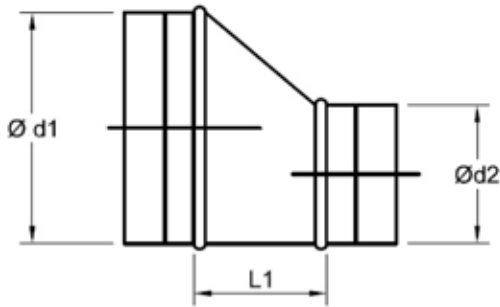
Connection	Ød1 / ØD	Designation	Ød2	Material	Gauge
N= Non-Gasketed	Diameter	RC = Concentric Reducer RCF = Concentric Reducer Female	Diameter	G9	24
N	16	RC	14	G9	24

Smart Part Number: **N16RC14G924**



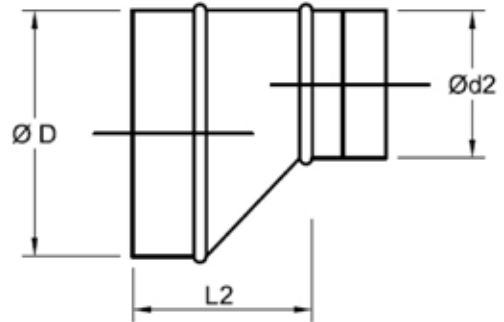
Description
fabricated eccentric reducer

- $L1 = (\text{Ø}d1 - \text{Ø}d2)^*$
(*) minimum 4"



Description
fabricated eccentric reducer

- ØD end slips onto fitting end
- $L1 = (\text{Ø}D - \text{Ø}d2)^* + e$ dimension (page 11)
(*) minimum 4"



Order Example

Connection	Ød / ØD	Designation	Ød2	Material	Gauge
N= Non-Gasketed	Diameter	RE = Eccentric Reducer REF = Eccentric Reducer Female	Diameter	G9	24

N

16

RC

14

G9

24

Smart Part Number: **N16RC14G924**

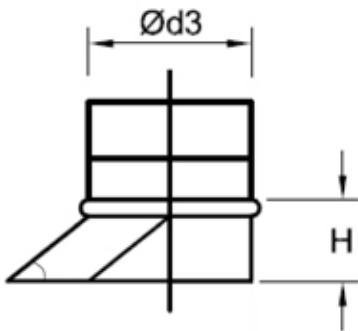


Description
45° boot-style tap

- installed on flat side of duct or plenum

Dimensions

If $\text{Ød3} \leq 8''$ H = 4"
 If $\text{Ød3} = 9''\text{-}14''$, H = 7"
 If $\text{Ød3} = 15''\text{-}26''$, H = 10"
 If $\text{Ød3} = 27''\text{-}46''$, H = 13"
 If $\text{Ød3} = 47''\text{-}60''$, H = 16"



Order Example

Connection	Ød3	Designation	Material	Gauge
N= Non-Gasketed	Fitting Diameter	PB = Boot-style tap	G9	24

N 14 PB G9 24

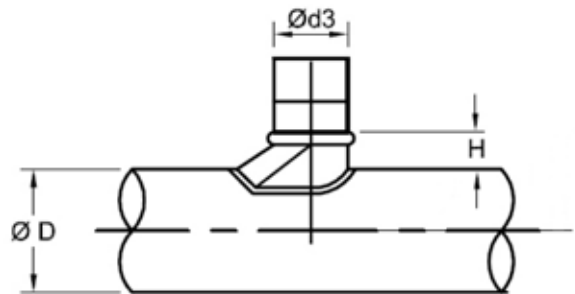
Smart Part Number: **N14PB**



Description
45° combination boot-style saddle tap

Dimensions

If $\text{Ød3} \leq 8''$, H = 4"
 If $\text{Ød3} = 9''\text{-}14''$, H = 7"
 If $\text{Ød3} = 15''\text{-}26''$, H = 10"
 If $\text{Ød3} = 27''\text{-}46''$, H = 13"
 If $\text{Ød3} = 47''\text{-}60''$, H = 16"



Order Example

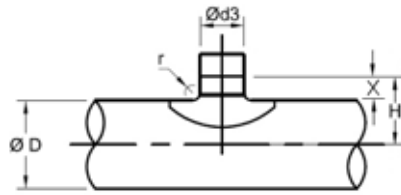
Connection	Ød3	Designation	ØD	Material	Gauge
N= Non-Gasketed	Fitting Diameter	PB = Combination boot-style saddle tap	Duct Diameter	G9	24

N 16 PB 00 G9 24

Smart Part Number: **N16PB00**

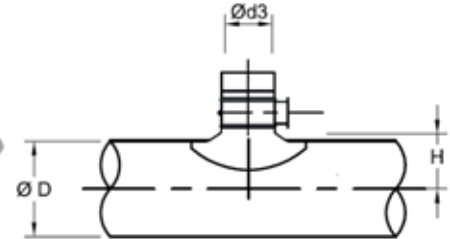
Taps

22



Description
pressed saddle tap

- radius entry
- limited to galvanized steel only
- available in Ød3 or tap diameters 3"-16", exceptions listed below
- Material: G90 only



Description
fabricated saddle tap

- sizes listed below
- X = 1"

Pressed Saddle Taps - Ød3 (inch)											
ØD (inch)	3	4	5	6	7	8	9	10	12	14	16
4	X	X									
5	X	X	X								
6	X	X	X	X							
7	X	X	X	X	X						
8		X	X	X	X	X					
9		X	X	X		X	X				
10		X	X	X		X	X	X			
12		X	X	X		X	X	X	X		
14		X	X	X		X	X	X	X		
16		X	X	X		X	X	X	X		X
18		X	X	X		X	X	X	X		X
20		X	X	X		X	X	X	X		X
22			X	X		X	X	X	X		X
24			X	X		X	X	X			X

Order Example

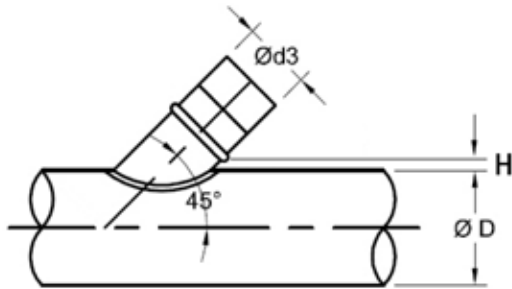
Connection	Ød3	Designation	ØD	Material	Gauge
N= Non-Gasketed	Diameter	PS = Saddle tap	Diameter	G9	24
N	3	PS	7	G9	24

Smart Part Number: **N3PS7G924**



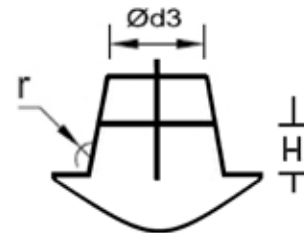
Description
fabricated 45° lateral tap for round

- H = 2.5"
- special order: 15°, 30°, 60°
i.e. for a 15° 12PV1520



Description
conical saddle tap

- H = 6"
- L = Ød3 + 2"



Order Example

Connection	Ød3	Designation	ØD	Material	Gauge
N= Non-Gasketed	Tap Diameter	PV45 = 45° Lateral Tap Round PC = Conical Saddle Tap	Duct Diameter	G9	24

N

22

PV45

32

G9

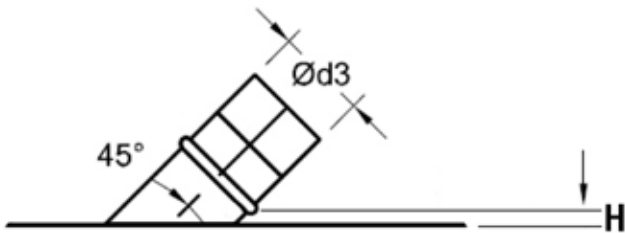
24

Smart Part Number: **N22PV32G924**



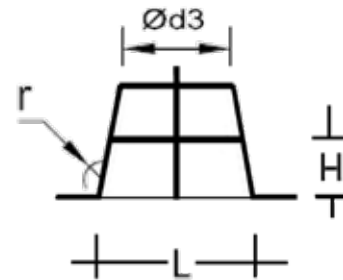
Description
fabricated 45° lateral tap for flat surface

- H = 2.5"
- special order: 15°, 30°, 60°
i.e. for a 15° 12PVF1520



Description
conical tap for flat surface

- H = 6"
- L = Ød3 + 2"
- flat lip = 3/8" - 5/8" depending on diameter

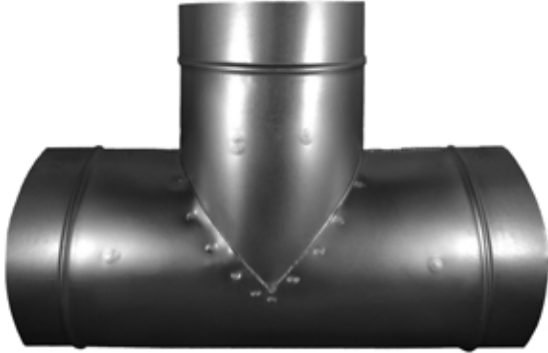


Order Example

Connection	Ød3	Designation	Material	Gauge
N= Non-Gasketed	Diameter	PV45 = 45° Lateral Tap Flat PC = Conical Saddle Tap Flat	G9	24

N **12** **PV45** **G9** **24**

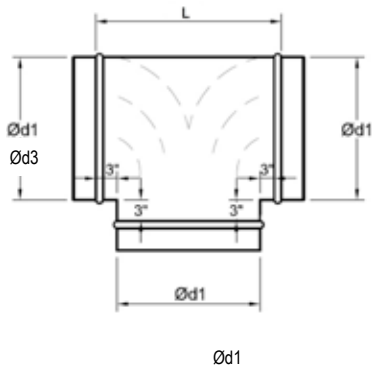
Smart Part Number: **N12PV45G924**



Description
bullhead tee

- $L = \text{Ød1} + 6''$

TBHV (with turning vanes) shown below.

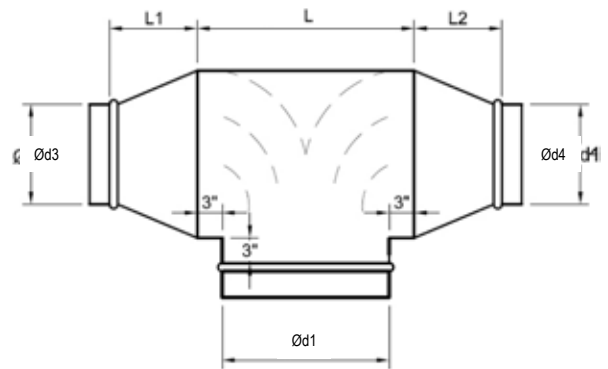


Description
bullhead reducing tee

- $L = \text{Ød1} + 6''$
- $L1 = (\text{Ød1} - \text{Ød3})^*$
- $L2 = (\text{Ød1} - \text{Ød2})^*$

(*) minimum 4"

TRBHV (with turning vanes) shown below.



Order Example

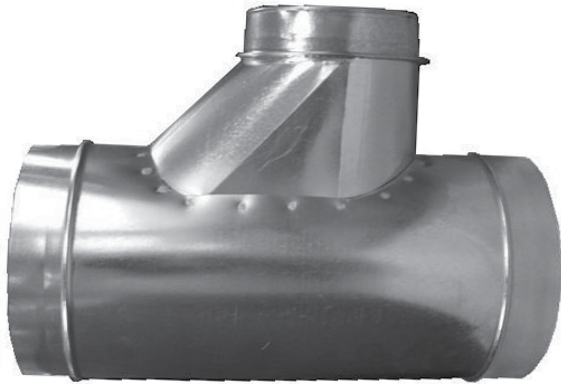
Connection	Ød1	Designation	Ød3	Material	Gauge
N= Non-Gasketed	Diameter	TBH = Bullhead Tee TBHV = Bullhead Tee With Vanes	Diameter	G9	24,26
U	14	TBH	12	G9	24

Smart Part Number: **N14TBH12**

Order Example

Connection	Ød1	Designation	Ød3	Ød4	Material	Gauge
N= Non-Gasketed	Diameter	TRBH = Bullhead Tee With Reducer TRBHV = Bullhead Tee With Reducer With Vanes	Diameter	Diameter	G9	24,26
U	14	TRBH	12	12	G9	24

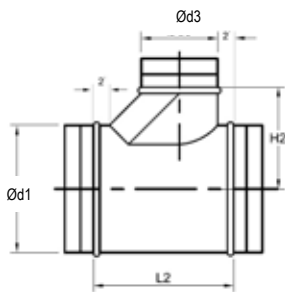
Smart Part Number: **N14TRBH1212**



Description

45° boot-style tee

- assembled with PB tap
- $\text{Ød3} \leq \text{Ød1}$ diameter
- $L2 = \text{Ød3} + H2 + 4"$
- If $\text{Ød3} \leq 8"$, $H2 = 4"$,
 If $\text{Ød3} = 9-14"$, $H2 = 7"$,
 If $\text{Ød3} = 15-26"$, $H2 = 10"$,
 If $\text{Ød3} = 27-46"$, $H2 = 13"$, and
 If $\text{Ød3} = 47-60"$, $H2 = 16"$



Order Example

Connection	Ød1	Designation	Ød3	Material	Gauge
N= NonGas-keted	Diameter	TB = 45° Boot-Style Tee	Diameter	G9	24,26

U 22 TB 12 G9 24

Smart Part Number: **N22TB12**

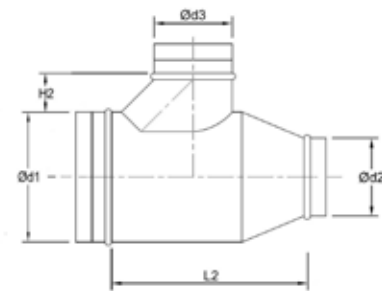


Description

45° boot-style tee with reducer

- assembled with PB tap
- $\text{Ød3} \leq \text{Ød1}$ diameter
- $L2 = (\text{Ød3} + H2 + 4") + (\text{Ød1} - \text{Ød2})^*$
- If $\text{Ød3} \leq 8"$, $H2 = 4"$,
 If $\text{Ød3} = 9-14"$, $H2 = 7"$,
 If $\text{Ød3} = 15-26"$, $H2 = 10"$,
 If $\text{Ød3} = 27-46"$, $H2 = 13"$, and
 If $\text{Ød3} = 47-60"$, $H2 = 16"$

(*) minimum of 4"



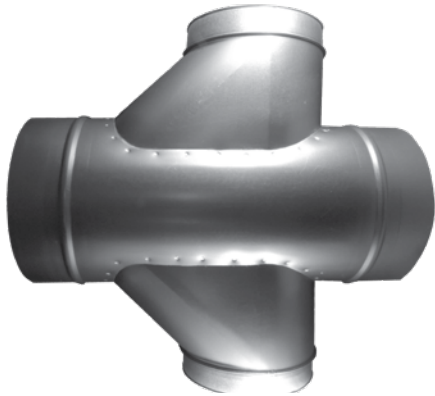
Order Example

Connection	Ød1	Designation	Ød2	Ød3	Material	Gauge
N= NonGas-keted	Diameter	TRB = 45° Boot-Style Tee With Reducer	Diameter	Diameter	G9	24,26

U 22 TRB 16 12 G9 24

Smart Part Number: **N22TRB1612**

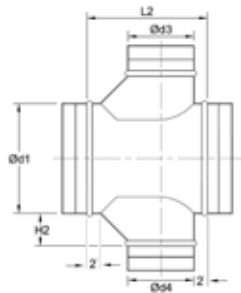
Crossing Tees



Description

45° boot-style crossing tee

- assembled with PB taps
- Ød3 and $\text{Ød4} \leq \text{Ød1}$ diameter
 $\text{Ød3} \geq \text{Ød4}$
- $L = \text{Ød3} + H2 + 4"$
- If $\text{Ød3} \leq 8"$, $H2 = 4"$,
If $\text{Ød3} = 9-14"$, $H2 = 7"$,
If $\text{Ød3} = 15-26"$, $H2 = 10"$,
If $\text{Ød3} = 27-46"$, $H2 = 13"$, and
If $\text{Ød3} = 47-60"$, $H2 = 16"$



Order Example

Connection	Ød1	Designation	Ød3	Ød4	Material	Gauge
N= Non-Gasketed	Diameter	XB = 45° Boot-Style Crossing Tee	Diameter	Diameter	G9	24.26
N	14	XB	12	12	G9	24

Smart Part Number: **N14XB1212**

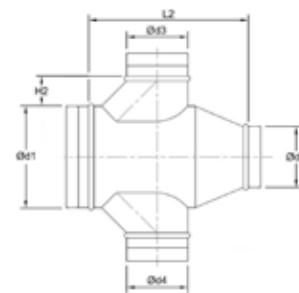


Description

45° boot-style crossing tee with reducer

- assembled with PB taps
- Ød3 and $\text{Ød4} \leq \text{Ød1}$ diameter
 $\text{Ød3} \geq \text{Ød4}$
- $L = (\text{Ød3} + H2 + 4") + (\text{Ød1} - \text{Ød2})^*$
- If $\text{Ød3} \leq 8"$ $H2 = 4"$,
If $\text{Ød3} = 9-14"$, $H2 = 7"$,
If $\text{Ød3} = 15-26"$, $H2 = 10"$,
If $\text{Ød3} = 27-46"$, $H2 = 13"$, and
If $\text{Ød3} = 47-60"$, $H2 = 16"$

(*) minimum of 4"



Order Example

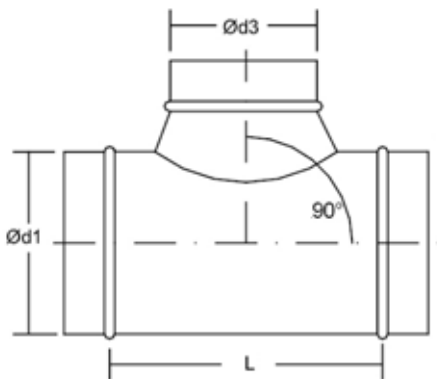
Connection	Ød1	Designation	Ød2	Ød3	Ød4	Material	Gauge
N= Non-Gasketed	Diameter	XRB = 45° Boot-Style Crossing Tee With Reducer	Diameter	Diameter	Diameter	G9	24.26
N	14	XRB	12	12	12	G9	24

Smart Part Number: **N14XRB121212**



Description
conical tee

- $L = \text{Ød3} + 8''$
- $H = 6''$
- Ød1 must be 2" or larger than Ød3



Order Example

Connection	Ød1	Designation	Ød3	Material	Gauge
N= Non-Gasketed	Diameter	TC = Conical Reducing Tee	Diameter	G9	24,26

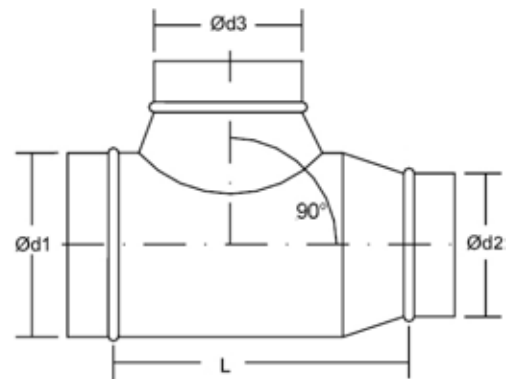
N **14** **TC** **12** **G9** **24**

Smart Part Number: **N14TC12**



Description
conical reducing tee

- $L = (\text{Ød3} + 8'') + (\text{Ød1} - \text{Ød2})^*$
 - $H = 6''$
 - Ød1 must be 2" or larger than Ød3
- (*) minimum of 4"



Order Example

Connection	Ød1	Designation	Ød2	Ød3	Material	Gauge
N= Non-Gasketed	Diameter	TRC = Conical Reducing Tee With Reducer	Diameter	Diameter	G9	24,26

N **14** **TRC** **12** **12** **G9** **24**

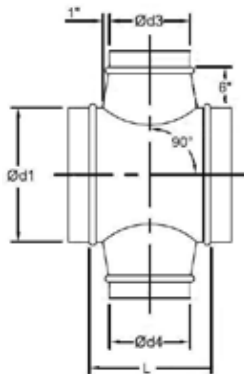
Smart Part Number: **N14TRC1212**

Crossing Tees



Description
conical crossing tee

- $L = \text{Ød3} + 8''$
- $H = 6''$
- Ød1 must be 2" or larger than Ød3
- $\text{Ød3} \geq \text{Ød4}$



Order Example

Connection	Ød1	Designation	Ød3	Ød4	Material	Gauge
N= Non-Gasketed	Diameter	XC = Conical Crossing Tee	Diameter	Diameter	G9	24,26

N 14 XC 12 12 G9 24

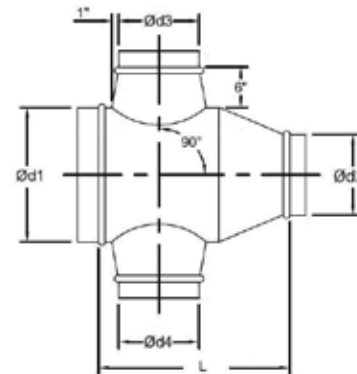
Smart Part Number: **N14XC1212**



Description
conical reducing crossing tee

- $L = (\text{Ød3} + 8'') + (\text{Ød1} - \text{Ød2})^*$
- $H = 6''$
- Ød1 must be 2" or larger than Ød3
- $\text{Ød3} \geq \text{Ød4}$

(*) minimum of 4"



Order Example

Connection	Ød1	Designation	Ød2	Ød3	Ød4	Material	Gauge
N= Non-Gasketed	Diameter	XRC = Conical Crossing Tee With Reducer	Diameter	Diameter	Diameter	G9	24,26

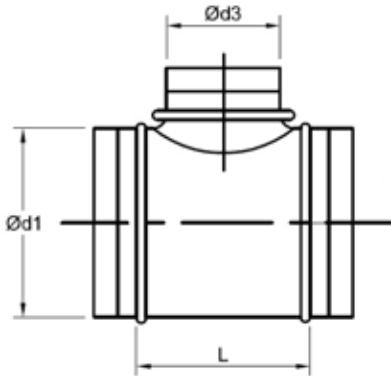
N 14 XRC 12 12 12 G9 24

Smart Part Number: **N14XRC121212**



Description
tee with die-stamped (G90 only) or fabricated PS

- $L = \text{Ød3} + 6''$



Order Example

Connection	Ød1	Designation	Ød3	Material	Gauge
N= Non-Gasketed	Diameter	TS = Assembled Tee	Diameter	G9	24,26

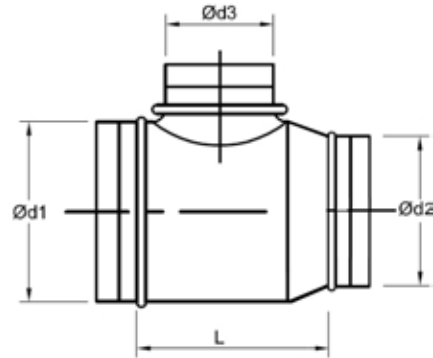
N 14 TS 12 G9 24

Smart Part Number: **N14TS12**



Description
reducing tee with die-stamped (G90 only) or fabricated PS

- $L = (\text{Ød3} + 6'') + (\text{Ød1} - \text{Ød2})^*$
- (*) minimum of 4"



Order Example

Connection	Ød1	Designation	Ød2	Ød3	Material	Gauge
N= Non-Gasketed	Diameter	TRS = Assembled Tee With Reducer	Diameter	Diameter	G9	24,26

N 14 TRS 12 12 G9 24

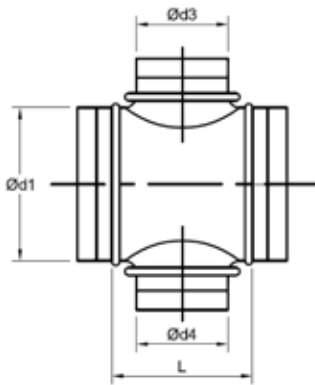
Smart Part Number: **N14TRS1212**

Crossing Tees



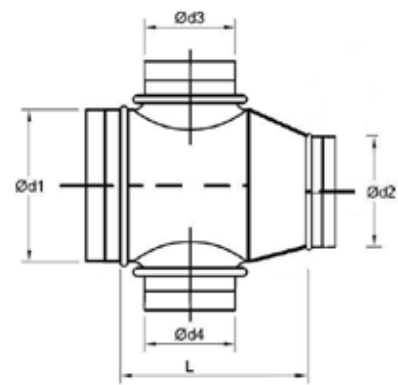
Description
crossing tee with die-stamped or fabricated PS

- $\text{Ød3} \geq \text{Ød4}$
- $L = \text{Ød3} + 6''$



Description
reducing crossing tee with die-stamped or fabricated PS

- $\text{Ød3} \geq \text{Ød4}$
 - $L = (\text{Ød3} + 6'') + (\text{Ød1} - \text{Ød2})^*$
- (*) minimum of 4"



Order Example

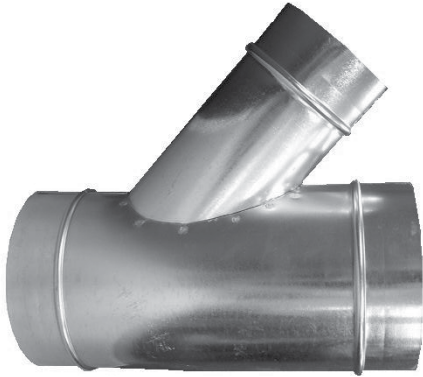
Connection	Ød1	Designation	Ød3	Ød4	Material	Gauge
N= Non-Gasketed	Diameter	XS = Crossing Tee	Diameter	Diameter	G9	24,26
N	14	XS	12	12	G9	24

Smart Part Number: **N14XS1212**

Order Example

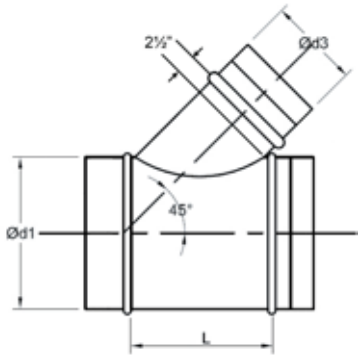
Connection	Ød1	Designation	Ød2	Ød3	Ød4	Material	Gauge
N= Non-Gasketed	Diameter	XRS = Tee With Reducer	Diameter	Diameter	Diameter	G9	24,26
N	14	XRS	12	12	12	G9	24

Smart Part Number: **N14XRS121212**



Description
45° lateral tee

- $L = \text{Ød3} [1/\sin(45)] + 4"$
- $H = 2.5"$ (constant)(throat height)
- special order: 15°- 30°- 60°
i.e. TV15



Order Example

Connection	Ød1	Designation	Ød3	Material	Gauge
N= Non-Gasketed	Diameter	TV = 45° Lateral Tee	Diameter	G9	24,26

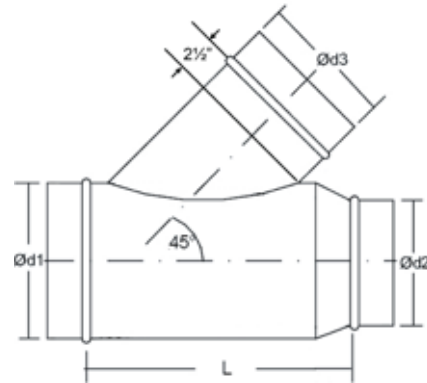
N **14** **TR** **08** **G9** **24**

Smart Part Number: **N14TR08**



Description
45° lateral reducing tee

- $L = \text{Ød3} [1/\sin(45)] + 4" + (\text{Ød1} - \text{Ød2})^*$
- $H = 2.5"$ (constant) (throat height)
- (*) minimum of 4



Order Example

Connection	Ød1	Designation	Ød2	Ød3	Material	Gauge
N= Non-Gasketed	Diameter	TRV = 45° Lateral Tee With Reducer	Diameter	Diameter	G9	24,26

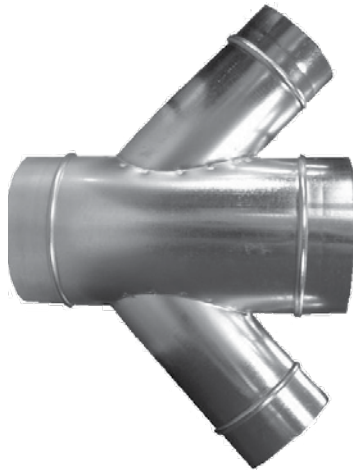
N **14** **TRV** **12** **08** **G9** **24**

Smart Part Number: **N14TRV1208**

Crossing Tees

XV45 / XRV45

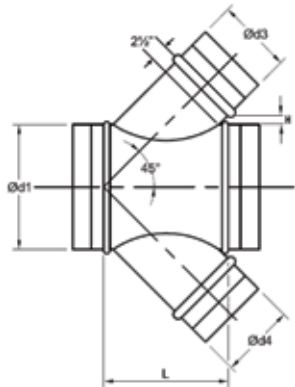
Old Designations | XV / XVR



Description

45° lateral crossing tee

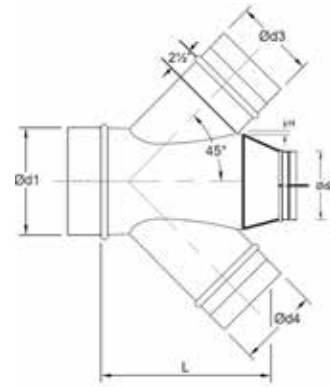
- dimension data for $\text{Ød4} = \text{Ød3}$ only
 $L = (1.414 \times \text{Ød3}) + 4"$
- $H = 2.5"$ (constant throat height)
 $\text{Ød3} \geq \text{Ød4}$
- special order: 15° - 30° - 60°
 i.e. XV 15° - aa - bb - cc



Description

45° lateral reducing crossing tee

- dimension data for $\text{Ød4} = \text{Ød3}$ only
 $L = (1.414 \times \text{Ød3}) + 4" + (\text{Ød1} - \text{Ød2})^*$
 - $H = 2.5"$ (constant throat height)
 - $\text{Ød3} \geq \text{Ød4}$
- (*) minimum of 4"



Order Example

Connection	Ød1	Designation	Ød3	Ød4	Material	Gauge
N= Non-Gasketed	Diameter	XV = 45° Lateral Crossing Tee	Diameter	Diameter	G9	24,26

N 14 XV 12 12 G9 24

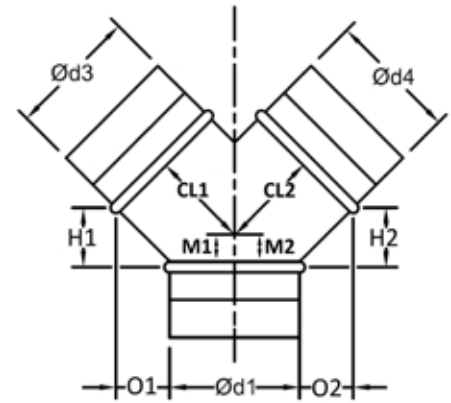
Smart Part Number: **N14XV1212**

Order Example

Connection	Ød1	Designation	Ød2	Ød3	Ød4	Material	Gauge
N= Non-Gasketed	Diameter	XRV = 45° Lateral Crossing Tee With Reducer	Diameter	Diameter	Diameter	G9	24,26

N 14 XRV 12 12 12 G9 24

Smart Part Number: **N14XRV121212**



Description

directional split fitting: 45°

- special order: 15°, 30°, 60°
i.e. Y 15° - aa - bb - cc
- special order: Ød3 or Ød4 < Ød1
- special order: Ød3 ≤ Ød4

Dimensions

$$H1 = [(\text{Ød3} \times 0.5) + (\text{Ød1} \times 0.9)] \times (\text{Ød3} \times 0.5)$$

$$O1 = [(\text{Ød3} \times 0.5) + (\text{Ød1} \times 0.8)] \times (\text{Ød1} \times 0.5)$$

$$H2 = [(\text{Ød4} \times 0.5) + (\text{Ød1} \times 0.9)] \times (\text{Ød4} \times 0.5)$$

$$O2 = [(\text{Ød4} \times 0.5) + (\text{Ød1} \times 0.8)] \times (\text{Ød1} \times 0.5)$$

$$M1 = H1 + (\text{Ød3} \times 0.5) \cdot 0.707 - (\text{Ød1} \times 0.5) + O1 - (\text{Ød3} \times 0.5) \cdot 0.707$$

$$M2 = H2 + (\text{Ød4} \times 0.5) \cdot 0.707 - (\text{Ød1} \times 0.5) + O2 - (\text{Ød4} \times 0.5) \cdot 0.707$$

$$CL1 = [(\text{Ød1} \times 0.5) + O1 - (\text{Ød3} \times 0.5) \cdot 0.707] / 0.707$$

$$CL2 = [(\text{Ød1} \times 0.5) + O2 - (\text{Ød4} \times 0.5) \cdot 0.707] / 0.707$$

Note: These dimensions apply for 45° only. Please call for dimensions on special orders.

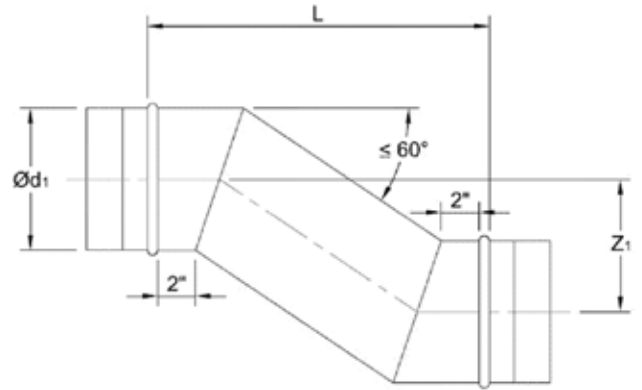
Order Example

Connection	Ød1	Designation	Ød2	Ød3	Material	Gauge
N= Non-Gasketed	Diameter	Y = 45° Directional Split	Diameter	Diameter	G9	24

N **16** **Y** **14** **14** **G9** **24**

Smart Part Number: **N16Y1414**

Offset



Description
one-piece offset

- $L_{\min} = \left[\frac{\text{Ø}d_1}{4} \right] + \left[\frac{Z_1}{0.577} \right] + 4$
- $L_{\max} = 60''$

Note: SMACNA recommends that offsets be 60° or less

Order Example

Connection	Ød1	Designation	L	Z ₁	Material	Gauge
N= Non-Gasketed	Diameter	Z = Offset	Length ≥ Lmin (≤60")	Offset Dimension	G9	24
N	16	Z	12	20	G9	24

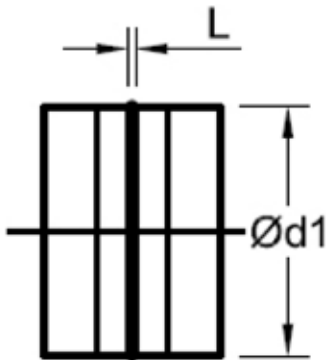
Smart Part Number: **N16Z1220**



Description

coupling used for joining duct

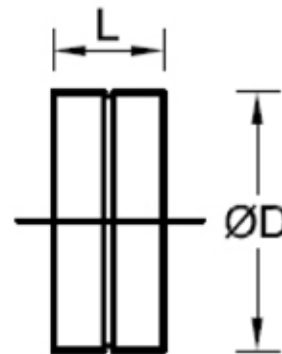
- If $\text{Ø } 3''\text{-}20''$, $L = \frac{3}{8}''$,
If $\text{Ø } 22''\text{-}26''$, $L = \frac{1}{2}''$
If $\text{Ø } 28''\text{-}60''$, $L = \frac{5}{8}''$



Description

coupling for joining fittings

- If $\text{Ø } 3''\text{-}9''$, $L = \frac{3}{8}''$,
If $\text{Ø } 10''\text{-}14''$, $L = \frac{5}{8}''$,
If $\text{Ø } 16''\text{-}26''$, $L = \frac{6}{8}''$,
If $\text{Ø } 28''\text{-}38''$, $L = \frac{8}{8}''$,
If $\text{Ø } 40''\text{-}60''$, $L = \frac{10}{8}''$



Order Example

Connection	Ød1 / Ød	Designation	Material	Gauge
N= Non-Gasketed	Diameter	CD = Coupling For Spiral CF = Coupling For Fitting	G9	22,24,26,28

N

16

CD

G9

24

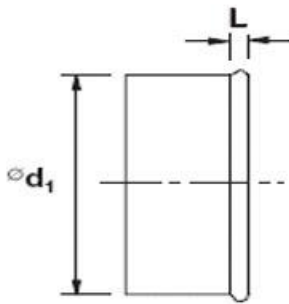
Smart Part Number: **N16CD**

End Caps



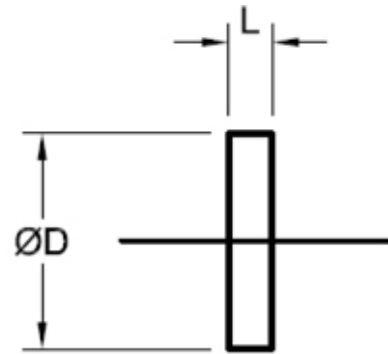
Description
end cap for duct

- If $\text{Ø } 3''\text{-}20''$, $L = \frac{3}{8}''$,
If $\text{Ø } 22''\text{-}26''$, $L = \frac{1}{2}''$
If $\text{Ø } 28''\text{-}60''$, $L = \frac{5}{8}''$



Description
end cap for fittings

- If $\text{Ø } 3''\text{-}9''$, $L = 1\frac{5}{8}''$,
If $\text{Ø } 10''\text{-}14''$, $L = 2\frac{3}{8}''$,
If $\text{Ø } 16''\text{-}26''$, $L = 3\frac{1}{8}''$,
If $\text{Ø } 28''\text{-}38''$, $L = 4''$,
If $\text{Ø } 40''\text{-}60''$, $L = 4\frac{3}{4}''$



Order Example

Connection	Ød1 / Ød	Designation	Material	Gauge
N= Non-Gasketed	Diameter	ED = End Cap For Spiral EF = End Cap For Fitting	G9	24

N

16

ED

G9

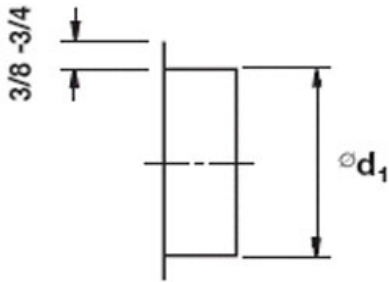
24

Smart Part Number: **N16ED**



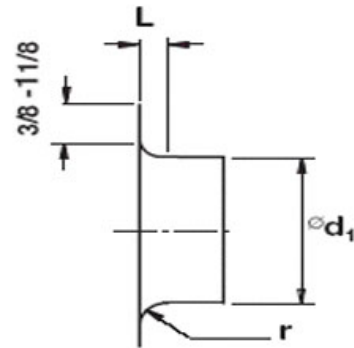
Description
take-off/starting collar

- installed on flat side of duct or plenum
- available in diameters 3"- 60"



Description
stamped radiused bellmouth take-off

- available in 4"-16" (not including 11")
- installed on flat side of duct or plenum
- Material: G90 only



Order Example

Connection	$\varnothing d_1$	Designation	Material	Gauge
N= Non-Gasketed	3" - 60" = Take-Off Starting Collar 4" - 16" = Bellmouth Take-Off	PT = Take-Off Starting Collar PR = Bellmouth Take-Off	G9	24

N

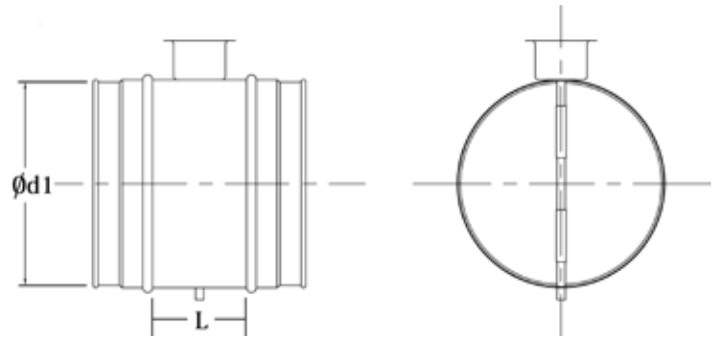
16

PT

G9

24

Smart Part Number: **N16PT**



Description

manual balancing damper

- for use in systems where a complete shut-off of air flow is not required
- gasketed shaft-mounted load bearing bushing to minimize air leakage
- integral shaft-blade assembly
- 2" sheet metal insulation stand-off
- damper cup height = 2"
- locking blade quadrant w/damper position indicator
- full fitting body assembly with bead stop

Note:

- $\varnothing d1 > 14"$ equipped with extended handle and a reinforced damper blade
- $\varnothing d1 > 24"$ provided with 2" bracket stand-off

Dimension

$\varnothing d1$	'L'	Shaft
inch	inch	inch x inch
4	3.9	5/16*
5	3.9	5/16*
6	3.9	5/16*
7	3.9	5/16*
8	3.9	5/16*
9	3.9	5/16*
10	3.5	5/16*
12	3.5	5/16*
14	3.5	5/16*
16	3.75	5/16*
18	3.75	5/16*
20	3.75	5/16*
22	3.75	5/16*
24	3.75	5/16*
26	3.75	5/16*
28	3.75	5/16*
30	3.75	5/16*
32	10.4	1**
34	10.4	1**
36	10.4	1**

* 2" shaft extensions available
** 1" square tube shaft

Order Example

Connection	$\varnothing d1$	Designation	Material	Gauge
N= Non-Gasketed	4" - 10" 12" - 36" in 2" Increments	DS = Balancing Damper With Full Blade DSW = Damper With Cable-Operating Option	G9	24

N

16

DS

G9

24

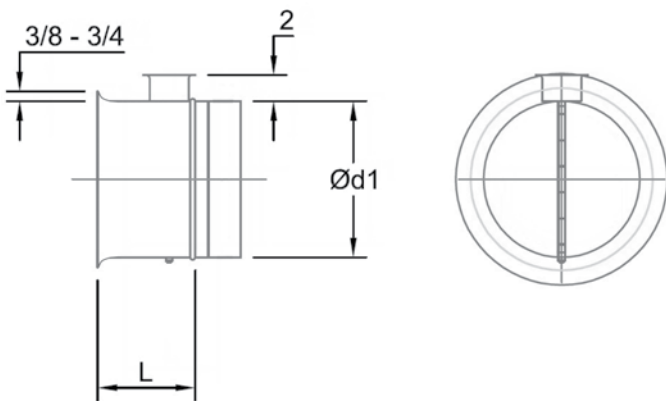
Smart Part Number: **N16DS**



Description

gasketed take-off with damper

- lengths (in):
 diameters 4" - 9" : L = 5½"
 diameters 10" - 14" : L = 5⅝"
 diameters 16" - 24" : L = 6⅜"
- shaft = 5/16" x 5/16"
- 2" shaft extension available
- Material: G90 only

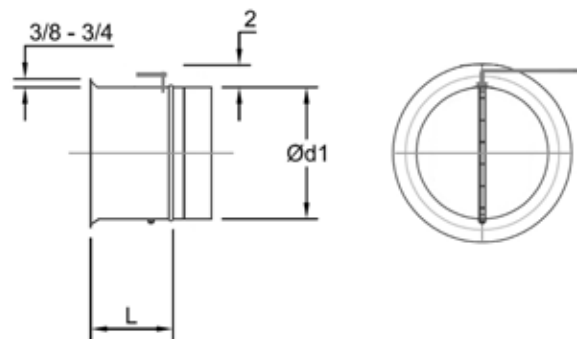


Description

gasketed bellmouth take-off with damper

- assembled with PR radiused bellmouth take-off
- lengths:
 diameters 4" - 9" : L = 7⅞"
 diameters 10" - 14" : L = 9"
 diameters 16" : L = 10¼"
- shaft = 5/16" x 5/16"
- 2" shaft extension available
- Material: G90 only

Note: 11" is not available



Order Example

Connection	Ød1	Designation	Material	Gauge
N= Non-Gasketed	Diameter	DSIL = Take-Off With Damper DSILR = Bellmouth Take-Off With Damper	G9	24

N

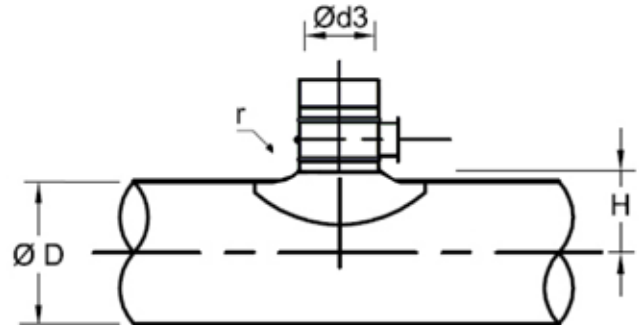
16

DSIL

G9

24

Smart Part Number: **N16DSIL**



Description
damper (DS) with saddle tap (PS) base

- shaft = 5/16" x 5/16"
- 2" shaft extensions available

Available in the following sizes (✓):

Available Sizes											
Ød	Ød3										
	3	4	5	6	7	8	9	10	12	14	16
4	✓	✓									
5	✓	✓	✓								
6	✓	✓	✓	✓							
7	✓	✓	✓	✓	✓						
8		✓	✓	✓	✓	✓					
9		✓	✓	✓	✓	✓	✓				
10		✓	✓	✓	✓	✓	✓	✓			
12		✓	✓	✓	✓	✓	✓	✓	✓		
14		✓	✓	✓		✓	✓	✓	✓	✓	
16		✓	✓	✓		✓	✓	✓	✓	✓	✓
18		✓	✓	✓		✓	✓	✓	✓	✓	✓
20		✓	✓	✓		✓	✓	✓	✓	✓	✓
22		✓	✓	✓		✓	✓	✓	✓	✓	✓
24		✓	✓	✓		✓	✓	✓	✓	✓	✓

Order Example

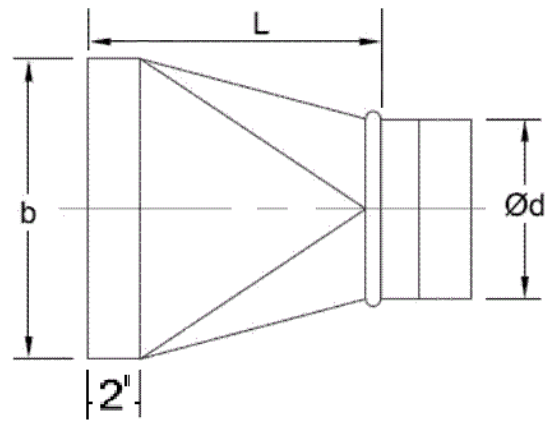
Connection	Ød3	Designation	ØD	Material	Gauge
N= Non-Gasketed	See Chart Above	DSPS = Damper With Saddle Tap	4" - 24"	G9	24

N **8** **DSPS** **16** **G9** **24**

Smart Part Number: **N8DSPS16G924**

Square-to-Round

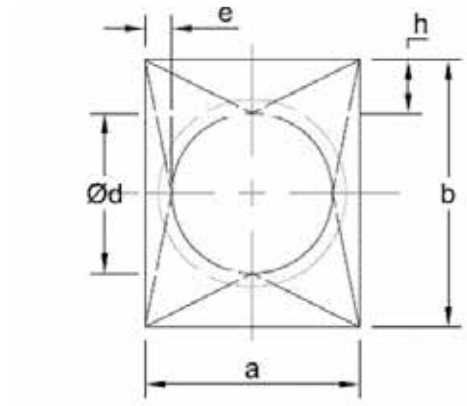
42



Description

square to round transition

- available in Ø 4" - 60"
- 2" raw edge rectangular end
- L = length
minimum = 12"
max = 60"
- a = rectangular width
- b = rectangular height
- special order: offset styles available



Order Example

Connection	Ød	Designation	a	b	L	Material	Gauge
N= NonGas-keted	4" - 60"	RRT = Square To Round	Width	Height	Length	G9	24

N **10** **RRT** **12** **13** **14** **G9** **24**

Smart Part Number: **N10RRT121314**



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