

Donaldson®
Torit®

EASY DUCT™
MASTER CATALOG



THE EASY DUCT ADVANTAGE

- Simple to install - No special tools or training required
- Clamp-together components can be taken apart and reused
- Flexible - Easily connects to existing ductwork
- Components and adapters fit every system
- Adjustable duct fittings simplify connections
- Smooth interior surface helps prevent clogs



EASY DUCT - AN INVESTMENT IN YOUR FUTURE

LOWER COST THAN CONVENTIONAL JOINING METHODS

Easy Duct™ clamp-together ducting eliminates rivets, screws, welds and other time-consuming and costly joining methods. The Easy Duct adjustable nipple also telescopes in length to eliminate the need for precise measurements and wasted parts due to improper measuring. Thanks to the patented Easy Duct design, straight piping, elbows and branch pieces clamp easily together in seconds and can be put together and taken apart with no special tools. That means you don't have to throw away your existing ducting each time you make a floor plan change.

LASER WELDED

- Smooth. No hang up interiors and virtually seamless exterior finish that allows fewer bug harbors and snag opportunities
- Stronger, air-tight longitudinal seams
- Rounder circumferences for easier clamping and tighter adjustable nipple seals

QUICK AND STRONG ASSEMBLY

The Easy Duct system begins with pipes and fittings (i.e. branches, elbows, pipes, hoods, and adapters from 3" to 24" in diameter) that have been machined so that each connecting end has double-rolled edges. When the Easy Duct clamp (complete with built-in gasket) is snapped into place, the resulting seal is strong and tight enough for almost all dust collection and solid materials conveying applications.

- Galvanized or stainless steel
- No welds - No rivets - No screws - No precise measurements required
- Your employees can handle many installations themselves
- Perfect for new installations or changes to existing systems
- Handles dusts, chemicals, food, fumes and more
- Clean outs and replacements are a snap
- Easy to take apart and reuse

DECREASED DOWNTIME

Thanks to the Easy Duct clamp together design, installations, clean outs and changes take only a fraction of the time it takes for traditional ducting. That means reduced down-time for your operations.

EFFECTIVE FOR NEW INSTALLATIONS AND EXISTING SYSTEMS

Many of the largest manufacturing facilities being built in the US today go online with complete Easy Duct systems. Easy Duct also connects easily to existing ducting systems. Because Easy Duct can be taken apart and reused, it quickly accommodates floor plan changes and machine replacements.

VERSATILE APPLICATIONS

A partial listing of materials collected or conveyed through Easy Duct includes: sawdust, metal grindings, printing powder, plastic pellets, dry cement, carbon black, smoke, fumes, grains, lime, wood chips, mists, toner dusts, paper trim, cocoa, and hundreds of others.

Call for a FREE analysis of how Easy Duct can cut your overall ducting and downtime costs.

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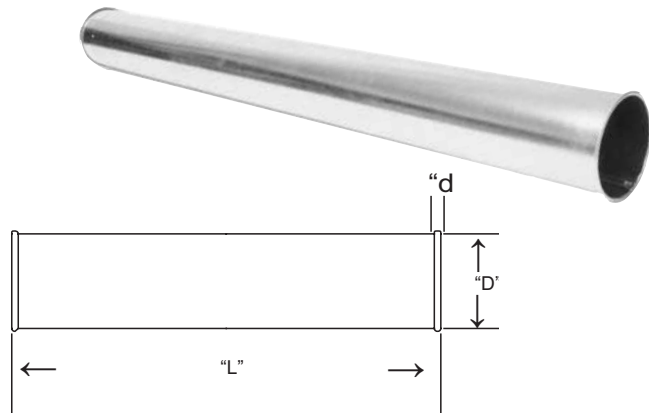
PRODUCT CODE	DIAMETER INCHES	MATERIAL	SPECIAL USE
3210-0790-107000			
	DEGREE	CL RADIUS	
MATERIAL AVAILABLE			
1: GALVANIZED			
2: 304 STAINLESS STEEL			
3: 316 STAINLESS STEEL			
255: STAINLESS			
655: ALUMINUM			

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EASY DUCT PIPE & FLANGED PIPE

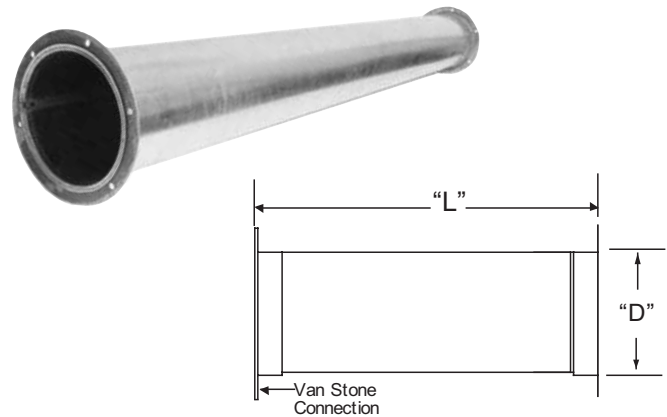
PIPE PT. 3200

Laser Welded Seam with Rolled Ends. 3" is Lock Formed. Connects quickly and easily with the QF clamp.



FLANGED PIPE PT. 3201

Use this duct system for sizes above 24". Longitudinal lock form seam, with Van Stone Angle Flange on both ends



DIAMETER D (in)	PART NO.*	GAUGE		ROLL d	LENGTH L (in)
		GALV.	SS		
3	3200-0300	22	22	0.2	59.25
4	3200-0400	22	22	0.2	59.25
5	3200-0500	22	22	0.2	59.25
6	3200-0600	22	22	0.2	59.25
7	3200-0700	22	22	0.3	59.06
8	3200-0800	22	22	0.3	59.06
9	3200-0900	22	22	0.3	59.06
10	3200-1000	22	22	0.3	58.75
11	3200-1100	22	22	0.3	58.75
12	3200-1200	22	22	0.4	58.75
13	3200-1300	20	20	0.4	58.75
14	3200-1400	20	20	0.4	58.75
15	3200-1500	20	20	0.4	58.75
16	3200-1600	20	20	0.4	58.75
17	3200-1700	20	20	0.4	58.75
18	3200-1800	20	20	0.4	58.75
20	3200-2000	20	20	0.4	58.75
22	3200-2200	20	20	0.4	58.75
24	3200-2400	20	20	0.4	58.75

DIAMETER D (in)	PART NO.*	GAUGE		LENGTH L (in)
		GALV.	SS	
3	3201-03LW	22	22	59
4	3201-04LW	22	22	59
5	3201-05LW	22	22	59
6	3201-06LW	22	22	59
7	3201-07LW	22	22	59
8	3201-08LW	22	22	59
9	3201-09LW	22	22	59
10	3201-10LW	22	22	59
11	3201-11LW	22	22	59
12	3201-12LW	22	22	59
13	3201-13LW	20	20	59
14	3201-14LW	20	20	59
15	3201-15LW	20	20	59
16	3201-16LW	20	20	59
17	3201-17LW	20	20	59
18	3201-18LW	20	20	59
20	3201-20LW	20	20	59
22	3201-22LW	20	20	59
24	3201-24LW	20	20	59
26	3201-2616	16	16	59
28	3201-2816	16	16	59
30	3201-3016	16	16	59
32	3201-3216	16	16	59
34	3201-3416	16	16	59
36	3201-3616	16	16	59
38	3201-3816	16	16	59
40	3201-4016	16	16	59

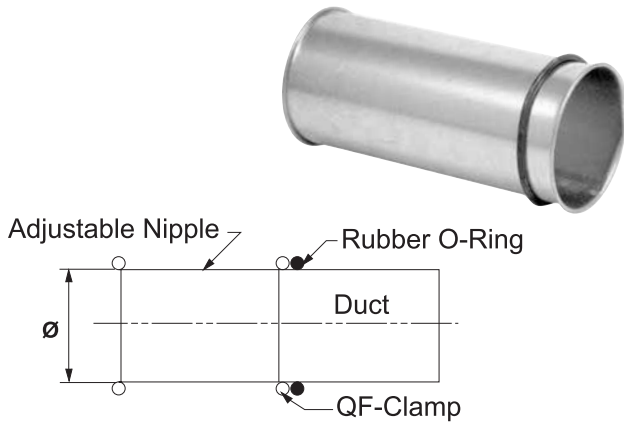
* Add -100000 to part number for galvanized
Add -200000 to part number for stainless steel

ORDERING NOTES: Data is subject to change without notice. Stainless steel components requiring flanges will be supplied with SS flanges unless otherwise specified. Stainless steel components are manufactured with 304 SS. [Call for 316 SS Prices]. For special parts or items to be custom manufactured call for quotation.

ADJUSTABLE NIPPLE WITH O-RING & CLAMP WITH PIN

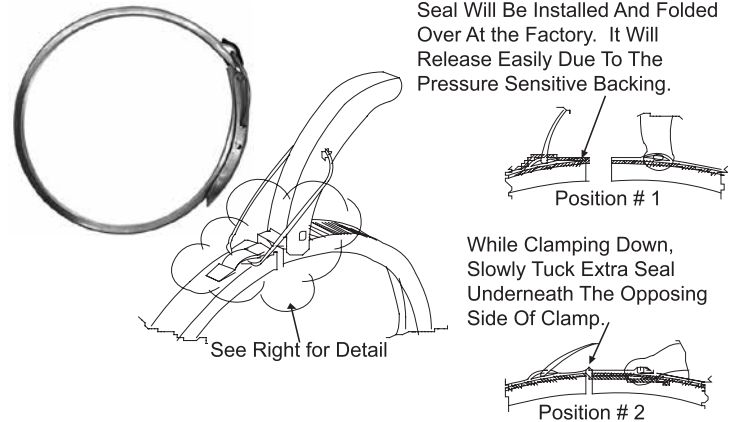
ADJUSTABLE NIPPLE WITH O-RING PT. 3202

Used to provide variable length adjustment of Easy Duct System. Black O-Ring included.



CLAMP WITH PIN PT. 3260

Standard clamps come with Nitrile seals to help prevent leakage over multiple uses. Clamps with ePTFE seals available at additional charge.



DIAMETER D (in)	PART NO.*	LENGTH L (in)	GAUGE	
			GALV.	SS
3	3202-0300	11 1/4	22	22
4	3202-0400	11 1/4	22	22
5	3202-0500	11 1/4	22	22
6	3202-0600	11 1/4	22	22
7	3202-0700	11 1/8	22	22
8	3202-0800	11	22	22
9	3202-0900	11	22	22
10	3202-1000	10 7/8	22	22
11	3202-1100	10 5/8	22	22
12	3202-1200	10 5/8	22	22
13	3202-1300	10 5/8	20	20
14	3202-1400	10 5/8	20	20
15	3202-1500	10 5/8	20	20
16	3202-1600	10 5/8	20	20
17	3202-1700	10 5/8	20	20
18	3202-1800	10 5/8	20	20
20	3202-2000	10 5/8	20	20
22	3202-2200	10 5/8	20	20
24	3202-2400	10 5/8	20	20

DIAMETER (in)	PART NO.†
3	3260-0300
4	3260-0400
5	3260-0500
6	3260-0600
7	3260-0700
8	3260-0800
9	3260-0900
10	3260-1000
11	3260-1100
12	3260-1200
13	3260-1300
14	3260-1400
15	3260-1500
16	3260-1600
17	3260-1700
18	3260-1800
20	3260-2000
22	3260-2200
24	3260-2400

* Add -100000 to part number for galvanized
 † Add -200000 to part number for stainless steel
 ‡ Add -100900 for galvanized

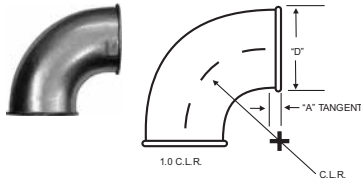
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ADDITIONAL PINS	
LARGE BRIDGE PINS	3260-PINS-LARGE
SMALL BRIDGE PINS	3260-PINS-SMALL
ADDITIONAL NITRILE SEALS	
3 – 6	3260-0375-SP3000
7 – 11	3260-0500-SP4000
12 – 24	3260-0650-SP5000

ELBOW - STANDARD & LONG RADIUS

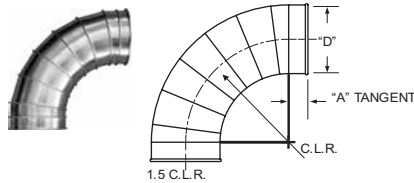
ELBOW PT. 3210

Press Formed



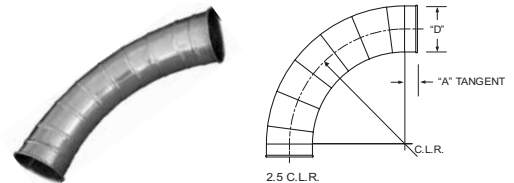
ELBOW PT. 3210

Segmented



ELBOW LONG RADIUS PT. 3210

Segmented



T= Tubed style. CLR= Center Line radius. P= Press formed halves stitch welded together. S= Segmented elbows.

ELBOW - STANDARD RADIUS

DIAMETER D (in)	90°		60°		45°		30°		CLR		STYLE		GAUGE		TANGENTS (in)	
	PART NO. *	PART NO. *	PART NO. *	PART NO. *	PART NO. *	PART NO. *	GALV.	SS	GALV.	SS	GALV.	SS	GALV.	SS	GALV.	SS
3	3210-0390-103000	3210-0360-103000	3210-0345-103000	3210-0330-103000	1.0	1.5	P	T	24	14	2.25	2				
4	3210-0490-104000	3210-0460-104000	3210-0445-104000	3210-0430-104000	1.0	1.5	P	T	24	14	1.32	2				
5	3210-0590-105000	3210-0560-105000	3210-0545-105000	3210-0530-105000	1.0	1.5	P	T	24	14	1.32	2				
6	3210-0690-106000	3210-0660-106000	3210-0645-106000	3210-0630-106000	1.0	1.5	P	T	24	14	1.32	2				
7	3210-0790-107000	3210-0760-107000	3210-0745-107000	3210-0730-107000	1.0	1.5	P	S	24	22	1.32	2.25				
8	3210-0890-112000	3210-0860-112000	3210-0845-112000	3210-0830-112000	1.5	1.5	S	S	22	22	2.25	2.25				
9	3210-0990-113500	3210-0960-113500	3210-0945-113500	3210-0930-113500	1.5	1.5	S	S	22	22	2.25	2.25				
10	3210-1090-115000	3210-1060-115000	3210-1045-115000	3210-1030-115000	1.5	1.5	S	S	22	22	2.25	2.25				
11	3210-1190-116500	3210-1160-116500	3210-1145-116500	3210-1130-116500	1.5	1.5	S	S	22	22	2.25	2.25				
12	3210-1290-118000	3210-1260-118000	3210-1245-118000	3210-1230-118000	1.5	1.5	S	S	22	22	2.25	2.25				
13	3210-1390-119500	3210-1360-119500	3210-1345-119500	3210-1330-119500	1.5	1.5	S	S	20	20	2.25	2.25				
14	3210-1490-121000	3210-1460-121000	3210-1445-121000	3210-1430-121000	1.5	1.5	S	S	20	20	2.25	2.25				
15	3210-1590-122500	3210-1560-122500	3210-1545-122500	3210-1530-122500	1.5	1.5	S	S	20	20	2.25	2.25				
16	3210-1690-124000	3210-1660-124000	3210-1645-124000	3210-1630-124000	1.5	1.5	S	S	20	20	2.25	2.25				
17	3210-1790-125500	3210-1760-125500	3210-1745-125500	3210-1730-125500	1.5	1.5	S	S	20	20	2.25	2.25				
18	3210-1890-127000	3210-1860-127000	3210-1845-127000	3210-1830-127000	1.5	1.5	S	S	20	20	2.25	2.25				
20	3210-2090-130000	3210-2060-130000	3210-2045-130000	3210-2030-130000	1.5	1.5	S	S	20	20	2.25	2.25				
22	3210-2290-133000	3210-2260-133000	3210-2245-133000	3210-2230-133000	1.5	1.5	S	S	20	20	2.25	2.25				
24	3210-2490-136000	3210-2460-136000	3210-2445-136000	3210-2430-136000	1.5	1.5	S	S	20	20	2.25	2.25				

ELBOW - LONG RADIUS

DIAMETER D (in)	90°		60°		45°		30°		CLR		STYLE		GAUGE		TANGENTS (in)	
	PART NO. *	PART NO. *	PART NO. *	PART NO. *	PART NO. *	PART NO. *	GALV.	SS	GALV.	SS	GALV.	SS	GALV.	SS	GALV.	SS
3	3210-0390-104500	3210-0360-104500	3210-0345-104500	3210-0330-104500	1.5	2.5	P	T	24	14	2	2				
4	3210-0490-106000	3210-0460-106000	3210-0445-106000	3210-0430-106000	1.5	2.5	P	T	24	14	2	2				
5	3210-0590-107500	3210-0560-107500	3210-0545-107500	3210-0530-107500	1.5	2.5	P	T	24	14	2	2				
6	3210-0690-109000	3210-0660-109000	3210-0645-109000	3210-0630-109000	1.5	2.5	P	T	24	14	2	2				
7	3210-0790-110500	3210-0760-110500	3210-0745-110500	3210-0730-110500	1.5	2.5	P	S	24	22	2	2.25				
8	3210-0890-120000	3210-0860-120000	3210-0845-120000	3210-0830-120000	2.5	2.5	S	S	22	22	2.25	2.25				
9	3210-0990-122500	3210-0960-122500	3210-0945-122500	3210-0930-122500	2.5	2.5	S	S	22	22	2.25	2.25				
10	3210-1090-215000	3210-1060-215000	3210-1045-215000	3210-1030-215000	2.5	2.5	S	S	22	22	2.25	2.25				
11	3210-1190-127500	3210-1160-127500	3210-1145-127500	3210-1130-127500	2.5	2.5	S	S	22	22	2.25	2.25				
12	3210-1290-130000	3210-1260-130000	3210-1245-130000	3210-1230-130000	2.5	2.5	S	S	22	22	2.25	2.25				
13	3210-1390-132500	3210-1360-132500	3210-1345-132500	3210-1330-132500	2.5	2.5	S	S	20	20	2.25	2.25				
14	3210-1490-135000	3210-1460-135000	3210-1445-135000	3210-1430-135000	2.5	2.5	S	S	20	20	2.25	2.25				
15	3210-1590-137500	3210-1560-137500	3210-1545-137500	3210-1530-137500	2.5	2.5	S	S	20	20	2.25	2.25				
16	3210-1690-140000	3210-1660-140000	3210-1645-140000	3210-1630-140000	2.5	2.5	S	S	20	20	2.25	2.25				
17	3210-1790-142500	3210-1760-142500	3210-1745-142500	3210-1730-142500	2.5	2.5	S	S	20	20	2.25	2.25				
18	3210-1890-145000	3210-1860-145000	3210-1845-145000	3210-1830-145000	2.5	2.5	S	S	20	20	2.25	2.25				
20	3210-2090-150000	3210-2060-150000	3210-2045-150000	3210-2030-150000	2.5	2.5	S	S	20	20	2.25	2.25				
22	3210-2290-155000	3210-2260-155000	3210-2245-155000	3210-2230-155000	2.5	2.5	S	S	20	20	2.25	2.25				
24	3210-2490-160000	3210-2460-160000	3210-2445-160000	3210-2430-160000	2.5	2.5	S	S	20	20	2.25	2.25				

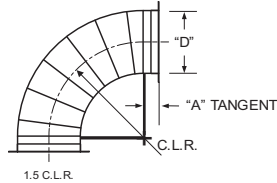
* Call 800 number for stainless steel part numbers

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ELBOW - FLANGED

ELBOW - FLANGED PT. 3211

Elbows are supplied with a Van Stone Angle Flange on both ends.



T= Tubed style. CLR= Center Line radius. P= Press formed halves stitch welded together. S= Segmented elbows.

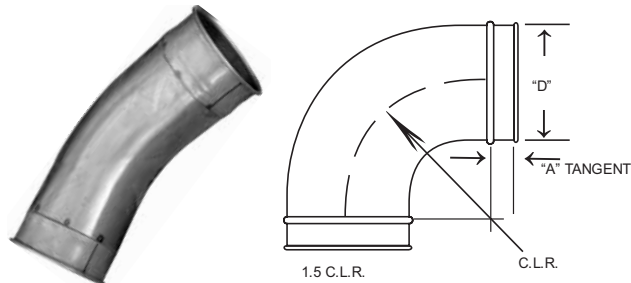
DIAMETER D (in)	90°	60°	45°	30°	CLR		STYLE		GAUGE		TANGENTS (in)
	PART NO. *	PART NO. *	PART NO. *	PART NO. *	GALV.	SS	GALV.	SS	GALV.	SS	
3	3211-0390-103000	3211-0360-103000	3211-0345-103000	3211-0330-103000	1.0	1.5	P	T	24	14	2
4	3211-0490-104000	3211-0460-104000	3211-0445-104000	3211-0430-104000	1.0	1.5	P	T	24	14	2
5	3211-0590-105000	3211-0560-105000	3211-0545-105000	3211-0530-105000	1.0	1.5	P	T	24	14	2
6	3211-0690-106000	3211-0660-106000	3211-0645-106000	3211-0630-106000	1.0	1.5	P	T	24	14	2
7	3211-0790-107000	3211-0760-107000	3211-0745-107000	3211-0730-107000	1.0	1.5	P	S	24	22	2
8	3211-0890-112000	3211-0860-112000	3211-0845-112000	3211-0830-112000	1.5	1.5	S	S	22	22	2
9	3211-0990-113500	3211-0960-113500	3211-0945-113500	3211-0930-113500	1.5	1.5	S	S	22	22	2
10	3211-1090-115000	3211-1060-115000	3211-1045-115000	3211-1030-115000	1.5	1.5	S	S	22	22	2
11	3211-1190-116500	3211-1160-116500	3211-1145-116500	3211-1130-116500	1.5	1.5	S	S	22	22	2
12	3211-1290-118000	3211-1260-118000	3211-1245-118000	3211-1230-118000	1.5	1.5	S	S	22	22	2
13	3211-1390-119500	3211-1360-119500	3211-1345-119500	3211-1330-119500	1.5	1.5	S	S	20	20	2
14	3211-1490-121000	3211-1460-121000	3211-1445-121000	3211-1430-121000	1.5	1.5	S	S	20	20	2
15	3211-1590-122500	3211-1560-122500	3211-1545-122500	3211-1530-122500	1.5	1.5	S	S	20	20	2
16	3211-1690-124000	3211-1660-124000	3211-1645-124000	3211-1630-124000	1.5	1.5	S	S	20	20	4
17	3211-1790-125500	3211-1760-125500	3211-1745-125500	3211-1730-125500	1.5	1.5	S	S	20	20	4
18	3211-1890-127000	3211-1860-127000	3211-1845-127000	3211-1830-127000	1.5	1.5	S	S	20	20	4
20	3211-2090-130000	3211-2060-130000	3211-2045-130000	3211-2030-130000	1.5	1.5	S	S	20	20	4
22	3211-2290-133000	3211-2260-133000	3211-2245-133000	3211-2230-133000	1.5	1.5	S	S	20	20	4
24	3211-2490-136000	3211-2460-136000	3211-2445-136000	3211-2430-136000	1.5	1.5	S	S	20	20	4
26	3211-2690-139000	3211-2660-139000	3211-2645-139000	3211-2630-139000	1.5	1.5	S	S	18	18	4
28	3211-2890-142000	3211-2860-142000	3211-2845-142000	3211-2830-142000	1.5	1.5	S	S	18	18	4
30	3211-3090-145000	3211-3060-145000	3211-3045-145000	3211-3030-145000	1.5	1.5	S	S	18	18	4
32	3211-3290-148000	3211-3260-148000	3211-3245-148000	3211-3230-148000	1.5	1.5	S	S	18	18	4
34	3211-3490-151000	3211-3460-151000	3211-3445-151000	3211-3430-151000	1.5	1.5	S	S	16	16	4
36	3211-3690-154000	3211-3660-154000	3211-3645-154000	3211-3630-154000	1.5	1.5	S	S	16	16	4
38	3211-3890-157000	3211-3860-157000	3211-3845-157000	3211-3830-157000	1.5	1.5	S	S	16	16	4
40	3211-4090-160000	3211-4060-160000	3211-4045-160000	3211-4030-160000	1.5	1.5	S	S	16	16	4

* Call 800 number for stainless steel part numbers

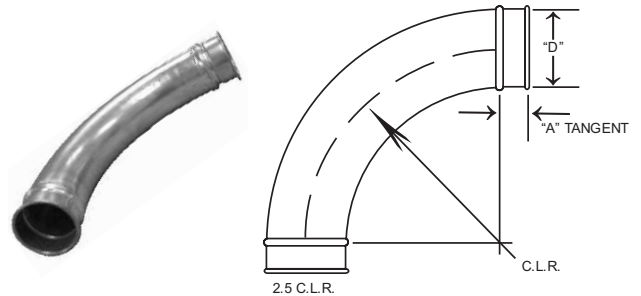
ORDERING NOTES: Data is subject to change without notice. Stainless steel components requiring flanges will be supplied with SS flanges unless otherwise specified. Stainless steel components are manufactured with 304 SS. [Call for 316 SS Prices]. For special parts or items to be custom manufactured call for quotation.

ELBOWS - TUBED

ELBOW - TUBED PT. 3214



ELBOW - TUBED LONG RADIUS PT. 3214



CLR= Center Line radius.

ELBOW - TUBED

DIAMETER D (in)	90°	60°	45°	30°	CLR	GAUGE		TANGENTS (in)
	PART NO. *	PART NO. *	PART NO. *	PART NO. *		GALV.	SS	
3	3214-0390-104500	3214-0360-104500	3214-0345-104500	3214-0330-104500	1.5	16	14	2
4	3214-0490-106000	3214-0460-106000	3214-0445-106000	3214-0430-106000	1.5	16	14	2
5	3214-0590-107500	3214-0560-107500	3214-0545-107500	3214-0530-107500	1.5	14	14	2
6	3214-0690-109000	3214-0660-109000	3214-0645-109000	3214-0630-109000	1.5	14	14	2
8	3214-0890-112000	3214-0860-112000	3214-0845-112000	3214-0830-112000	1.5	14	14	2

ELBOW - TUBED LONG RADIUS

DIAMETER D (in)	90°	60°	45°	30°	CLR	GAUGE		TANGENTS (in)
	PART NO. *	PART NO. *	PART NO. *	PART NO. *		GALV.	SS	
3	3214-0390-107500	3214-0360-107500	3214-0345-107500	3214-0330-107500	2.5	16	14	2
4	3214-0490-110000	3214-0460-110000	3214-0445-110000	3214-0430-110000	2.5	16	14	2
5	3214-0590-112500	3214-0560-112500	3214-0545-112500	3214-0530-112500	2.5	14	14	2
6	3214-0690-115000	3214-0660-115000	3214-0645-115000	3214-0630-115000	2.5	14	14	2
8	3214-0890-120000	3214-0860-120000	3214-0845-120000	3214-0830-120000	2.5	14	22	2

* Call 800 number for stainless steel part numbers

ORDERING NOTES: Data is subject to change without notice. Stainless steel components requiring flanges will be supplied with SS flanges unless otherwise specified. Stainless steel components are manufactured with 304 SS. [Call for 316 SS Prices]. For special parts or items to be custom manufactured call for quotation.

HOSES

RUBBER HOSE PT. 3280

Flexible rubber hose with steel coil. Hose clamps sold separately. "Clear" "FDA" hose is available upon request.



RIGID FLEX STEEL HOSE PT. 3281

Flexible rigid steel hose for higher temperature or abrasive material. Available in Galvanized or Stainless Steel.



ULTRA FLEX STEEL HOSE PT. 3283

Special flex steel hose. Available in Galvanized or Stainless Steel.



Note: All hose is sold in 5' increments with 5' minimum purchase. Easy Duct, flanged, and raw end styles are available.

DIAMETER (in)	PART NO.
1.0	3280-0100-000000
1.5	3280-1500-000000
2.0	3280-0200-000000
2.5	3280-2500-000000
3.0	3280-0300-000000
3.5	3280-3500-000000
4.0	3280-0400-000000
5.0	3280-0500-000000
5.5	3280-5500-000000
6.0	3280-0600-000000
7.0	3280-0700-000000
8.0	3280-0800-000000
9.0	3280-0900-000000
10.0	3280-1000-000000
12.0	3280-1200-000000
14.0	3280-1400-000000
16.0	3280-1600-000000
18.0	3280-1800-000000
20.0	3280-2000-000000
22.0	3280-2200-000000
24.0	3280-2400-000000

- Also available in clear "FDA" upon request
- #3282 Hose Adaptor recommended with this hose
- Sold by the foot in 5' increments

DIAMETER (in)	PART NO.
1.5	3281-1500-100000
2.0	3281-0200-100000
2.5	3281-2500-100000
3.0	3281-0300-100000
3.5	3281-3500-100000
4.0	3281-0400-100000
5.0	3281-0500-100000
6.0	3281-0600-100000
7.0	3281-0700-100000
8.0	3281-0800-100000
9.0	3281-0900-100000
10.0	3281-1000-100000
12.0	3281-1200-100000
14.0	3281-1400-100000

- Call 800 number for stainless steel part numbers
- Use #3249 Machine Adapter with this hose
- Do not use #3285 SS Hose Clamps with this hose
- Sold by the foot in 5' increments

DIAMETER (in)	PART NO.
3.0	3283-0300
4.0	3283-0400
5.0	3283-0500
6.0	3283-0600
7.0	3283-0700
8.0	3283-0800

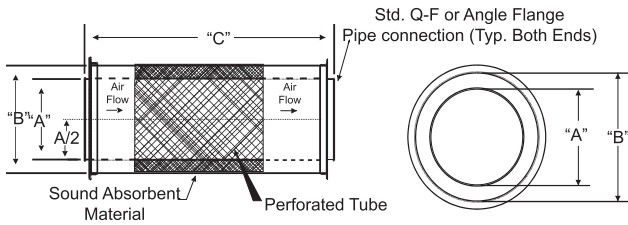
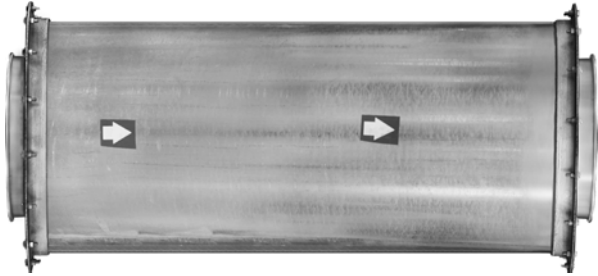
- Ends and adapters must be welded onto steel hose as standard "worm clamps" will not work
- Do not use #3285 SS Hose Clamps with this hose
- Sold by the foot in 5' increments
- Add -100000 to part number for galvanized steel
- Add -200000 to part number for stainless steel

ORDERING NOTES: Data is subject to change without notice. Stainless steel components requiring flanges will be supplied with SS flanges unless otherwise specified. Stainless steel components are manufactured with 304 SS. [Call for 316 SS Prices]. For special parts or items to be custom manufactured call for quotation.

SILENCER & MACHINE ADAPTER

SILENCER PT. 3106

Reduces sound levels from fans and equipment.



MACHINE ADAPTER PT. 3249

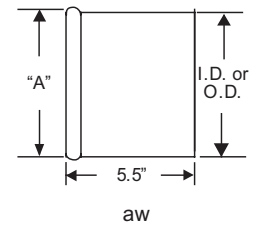
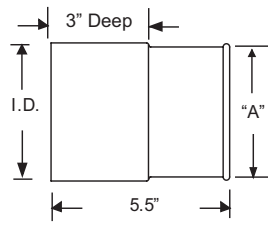
Specify desired ID or OD of non Easy Duct style. Must be within maximum opened dimension, or will be priced as a reducer. End Styles: Easy Duct (standard), Flanged, or Raw



Expanded



Raw



INNER DIAMETER A (in)	OUTER DIAMETER B (in)	PART NO.*	LENGTH C (in)	GAUGE
3	12	3106-0300	28	20
4	12	3106-0400	28	20
5	13	3106-0500	28	20
6	14	3106-0600	30	20
7	15	3106-0700	30	20
8	16	3106-0800	35	20
9	17	3106-0900	40	20
10	18	3106-1000	48	20
12	20	3106-1200	54	20
14	22	3106-1400	60	20
16	24	3106-1600	64	20
18	26	3106-1800	68	20
20	28	3106-2000	72	20
22	30	3106-2200	76	20
24	32	3106-2400	80	20
26	34	3106-2600	80	20
28	36	3106-2800	80	20
30	38	3106-3000	80	18
32	40	3106-3200	80	18
34	42	3106-3400	80	18
36	44	3106-3600	80	18
38	46	3106-3800	80	18
40	48	3106-4000	80	18

DIAMETER A (in)	PART NO.*	RAW END		GAUGE	APPROX. LENGTH (in)	MAXIMUM OPEN DIM. ID (in)
		OD (in)	ID (in)			
3	3249-0300	3.00	2.90	22	5.5	3.18
4	3249-0400	3.93	3.86	22	4.0	4.30
5	3249-0500	4.94	4.87	22	4.0	5.30
6	3249-0600	5.96	5.89	22	4.0	6.30
7	3249-0700	6.96	6.89	22	4.0	7.30
8	3249-0800	7.95	7.88	22	4.0	8.30
9	3249-0900	8.95	8.88	22	4.0	9.30
10	3249-1000	9.95	9.89	22	4.0	10.30
11	3249-1100	10.94	10.88	22	4.0	11.30
12	3249-1200	12.06	11.97	22	5.5	12.30
13	3249-1300	13.05	12.97	20	5.5	13.30
14	3249-1400	14.04	13.96	20	5.5	14.30
15	3249-1500	15.04	14.97	20	5.5	15.30
16	3249-1600	16.04	15.97	20	5.5	16.30
17	3249-1700	17.05	16.97	20	5.5	17.30
18	3249-1800	18.04	17.96	20	5.5	18.30
20	3249-2000	20.04	19.96	20	5.5	20.30
22	3249-2200	22.05	21.97	20	5.5	22.30
24	3249-2400	24.02	23.94	20	5.5	24.30

* Add -100000 to part number for galvanized
Add -200000 to part number for stainless steel

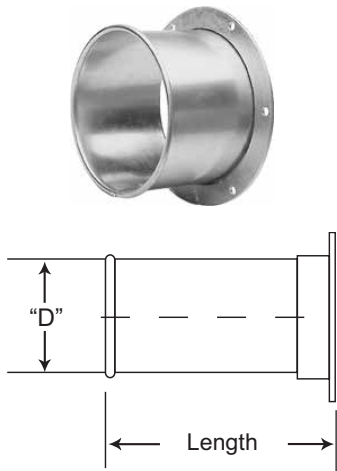
* Call 800 number for stainless steel part numbers

ORDERING NOTES: Data is subject to change without notice. Stainless steel components requiring flanges will be supplied with SS flanges unless otherwise specified. Stainless steel components are manufactured with 304 SS. [Call for 316 SS Prices]. For special parts or items to be custom manufactured call for quotation.

ADAPTERS

FLANGE ADAPTER PT. 3250

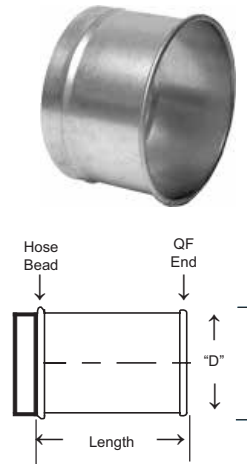
Angle Flange Standard. For Flat Flange, specify the hole pattern. If no drawing is provided, the flange will be blank.
End Styles: Easy Duct (standard), Flanged, or Raw



DIAMETER D (in)	PART NO.*	APPROX. LENGTH (in)	GAUGE
3	3250-0300	5.0	22
4	3250-0400	3.5	22
5	3250-0500	3.5	22
6	3220-0600	3.5	22
7	3250-0700	3.5	22
8	3250-0800	3.5	22
9	3250-0900	3.5	22
10	3250-1000	3.5	22
11	3250-1100	3.5	22
12	3250-1200	3.5	22
13	3250-1300	5.0	20
14	3250-1400	5.0	20
15	3250-1500	5.0	20
16	3250-1600	5.0	20
17	3250-1700	5.0	20
18	3250-1800	5.0	20
20	3250-2000	5.0	20
22	3250-2200	5.0	20
24	3250-2400	5.0	20

HOSE ADAPTER PT. 3282

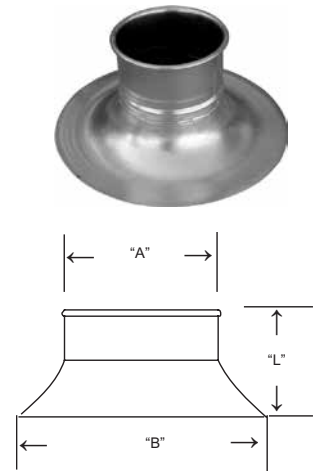
Hose adapters are available in Galvanized or Stainless Steel.
End Styles: Easy Duct (standard), Flanged, or Raw



DIAMETER D (in)	PART NO.*	APPROX. LENGTH (in)	GAUGE
3	3282-0300	5.5	22
4	3282-0400	4	22
5	3282-0500	4	22
6	3282-0600	4	22
7	3282-0700	4	22
8	3282-0800	4	22
9	3282-0900	4	22
10	3282-1000	4	22
11	3282-1100	4	22
12	3282-1200	4	22
13	3282-1300	5.5	20
14	3282-1400	5.5	20
15	3282-1500	5.5	20
16	3282-1600	5.5	20
17	3282-1700	5.5	20
18	3282-1800	5.5	20
20	3282-2000	5.5	20
22	3282-2200	5.5	20
24	3282-2400	5.5	20

BELL MOUTH ADAPTER PT. 3251

A flared end adapter. Increases capture ratio of air, dust, smoke, etc. 20 gauge.
End Styles: Easy Duct (standard), Flanged, or Raw



DIAMETER A (in)	DIAMETER B (in)	PART NO.*	LENGTH L (in)
3	8	3251-0300	4.5
4	9	3251-0400	4.5
5	10	3251-0500	4.5
6	12	3251-0600	5.0
7	13	3251-0700	5.0
8	14	3251-0800	5.0
9	15	3251-0900	5.0
10	16	3251-1000	5.0
11	19	3251-1100	6.0
12	20	3251-1200	6.0
13	21	3251-1300	6.0
14	22	3251-1400	6.0
15	23	3251-1500	6.0
16	26	3251-1600	7.0
17	27	3251-1700	7.0
18	28	3251-1800	7.0
20	30	3251-2000	7.0
22	34	3251-2200	8.0
24	36	3251-2400	8.0

* Add -100000 to part number for galvanized
Add -200000 to part number for stainless steel

ORDERING NOTES: Data is subject to change without notice. Stainless steel components requiring flanges will be supplied with SS flanges unless otherwise specified. Stainless steel components are manufactured with 304 SS. [Call for 316 SS Prices]. For special parts or items to be custom manufactured call for quotation.

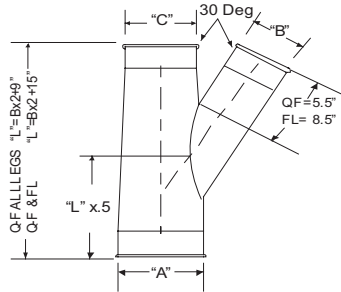
BRANCH & Y-BRANCH

BRANCH PT. 3220

When ordering specify A, B, C.
End Styles: Easy Duct (standard), Flanged, or Raw



Standard 30°
Optional 45°



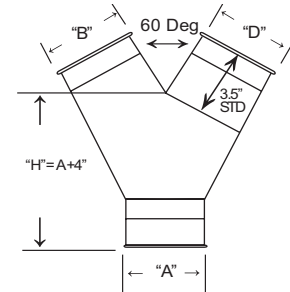
$A - B \geq B - C$
Use this formula to determine if a reducer is needed at C

Y-BRANCH PT. 3221

If A, B, or D is desired in flange, add price of flange and denote by FL after dimension for which flange is needed. When ordering specify A, B, D.
End Styles: Easy Duct (standard), Flanged, or Raw



Standard 60°
Optional 90°



$B + D \geq A$
Both B & D must be at least 50% of A. With B or D being 80% of the opposite leg.
Flange Leg: Length = 4.5"
Height = A+4"

DIAMETER A (in)	PART NO.	GAUGE	
		GALV.	SS
3	3220-03XX	22	22
4	3220-04XX	22	22
5	3220-05XX	22	22
6	3220-06XX	22	22
7	3220-07XX	22	22
8	3220-08XX	22	22
9	3220-09XX	22	22
10	3220-10XX	22	22
11	3220-11XX	22	22
12	3220-12XX	22	22
13	3220-13XX	20	20
14	3220-14XX	20	20
15	3220-15XX	20	20
16	3220-16XX	20	20
17	3220-17XX	20	20
18	3220-18XX	20	20
20	3220-20XX	20	20
22	3220-22XX	20	20
24	3220-24XX	20	20
26	3220-26XX	18	18
28	3220-28XX	18	18
30	3220-30XX	18	18
32	3220-32XX	18	18
34	3220-34XX	18	18
36	3220-36XX	18	18
38	3220-38XX	18	18
40	3220-40XX	18	18

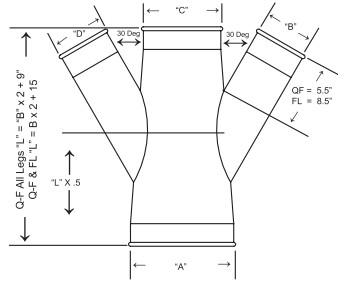
DIAMETER A (in)	PART NO.	GAUGE	
		GALV.	SS
3	3221-03XX	22	22
4	3221-04XX	22	22
5	3221-05XX	22	22
6	3221-06XX	22	22
7	3221-07XX	22	22
8	3221-08XX	22	22
9	3221-09XX	22	22
10	3221-10XX	22	22
11	3221-11XX	22	22
12	3221-12XX	22	22
13	3221-13XX	20	20
14	3221-14XX	20	20
15	3221-15XX	20	20
16	3221-16XX	20	20
17	3221-17XX	20	20
18	3221-18XX	20	20
20	3221-20XX	20	20
22	3221-22XX	20	20
24	3221-24XX	20	20
26	3221-26XX	18	18
28	3221-28XX	18	18
30	3221-30XX	18	18
32	3221-32XX	18	18
34	3221-34XX	18	18
36	3221-36XX	18	18
38	3221-38XX	18	18
40	3221-40XX	18	18

ORDERING NOTES: Data is subject to change without notice. Stainless steel components requiring flanges will be supplied with SS flanges unless otherwise specified. Stainless steel components are manufactured with 304 SS. [Call for 316 SS Prices]. For special parts or items to be custom manufactured call for quotation.

DOUBLE BRANCH & T-BRANCH

DOUBLE BRANCH PT. 3226

When ordering specify A, B, C, D.
End Styles: Easy Duct (standard), Flanged, or Raw



Standard 30°

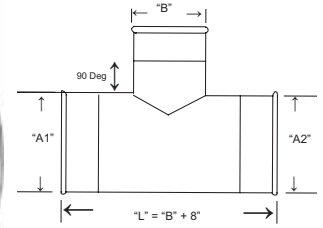
Optional 45°

Note: Reducer at "B" or "D" may be required. Use formula above to determine.

(A - B) ≥ (B - C) and (B) ≥ (D)

T-BRANCH PT. 3227

End Styles: Easy Duct (standard), Flanged, or Raw



Note: "A1" to "A2" must be same dimension, however, "B" must be equal to or smaller than the "A" dimension.

DIAMETER A (in)	PART NO.	GAUGE	
		GALV.	SS
3	3226-03XX	22	22
4	3226-04XX	22	22
5	3226-05XX	22	22
6	3226-06XX	22	22
7	3226-07XX	22	22
8	3226-08XX	22	22
9	3226-09XX	22	22
10	3226-10XX	22	22
11	3226-11XX	22	22
12	3226-12XX	22	22
13	3226-13XX	20	20
14	3226-14XX	20	20
15	3226-15XX	20	20
16	3226-16XX	20	20
17	3226-17XX	20	20
18	3226-18XX	20	20
20	3226-20XX	20	20
22	3226-22XX	20	20
24	3226-24XX	20	20
26	3226-26XX	18	18
28	3226-28XX	18	18
30	3226-30XX	18	18
32	3226-32XX	18	18
34	3226-34XX	18	18
36	3226-36XX	18	18
38	3226-38XX	18	18
40	3226-40XX	18	18

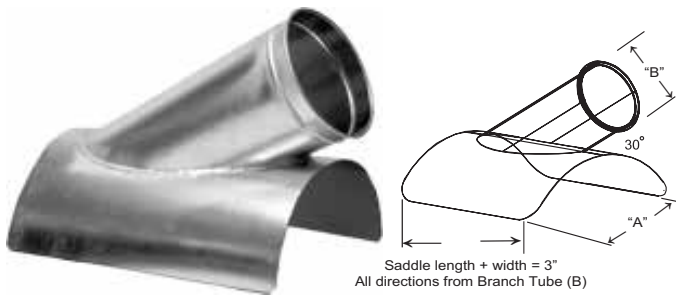
DIAMETER A (in)	PART NO.	GAUGE	
		GALV.	SS
3	3227-03XX	22	22
4	3227-04XX	22	22
5	3227-05XX	22	22
6	3227-06XX	22	22
7	3227-07XX	22	22
8	3227-08XX	22	22
9	3227-09XX	22	22
10	3227-10XX	22	22
11	3227-11XX	22	22
12	3227-12XX	22	22
13	3227-13XX	20	20
14	3227-14XX	20	20
15	3227-15XX	20	20
16	3227-16XX	20	20
17	3227-17XX	20	20
18	3227-18XX	20	20
20	3227-20XX	20	20
22	3227-22XX	20	20
24	3227-24XX	20	20
26	3227-26XX	18	18
28	3227-28XX	18	18
30	3227-30XX	18	18
32	3227-32XX	18	18
34	3227-34XX	18	18
36	3227-36XX	18	18
38	3227-38XX	18	18
40	3227-40XX	18	18

ORDERING NOTES: Data is subject to change without notice. Stainless steel components requiring flanges will be supplied with SS flanges unless otherwise specified. Stainless steel components are manufactured with 304 SS. [Call for 316 SS Prices]. For special parts or items to be custom manufactured call for quotation.

IN-CUT & TAP-IN

IN-CUT PT. 3223

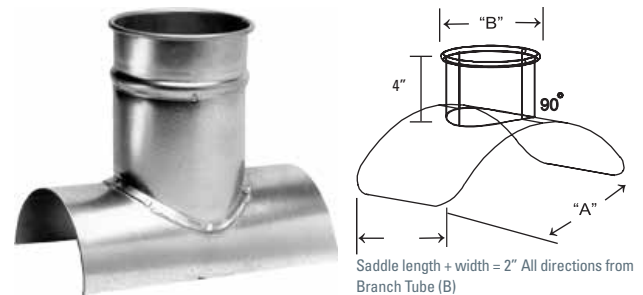
In-Cut is used to cut into existing lines to begin the Easy Duct system.
End Styles: Easy Duct (standard), Flanged, or Raw



Standard 30°
Optional 45°

TAP-IN PT. 3224

Tap-In is used to cut into existing lines to begin the Easy Duct system.
End Styles: Easy Duct (standard), Flanged, or Raw



Standard 30°
Optional 45°

PIPE DIAMETER A (in)	PART NO.*	GAUGE	
		GALV.	SS
4	3223-04XX	22	22
5	3223-05XX	22	22
6	3223-06XX	22	22
7	3223-07XX	22	22
8	3223-08XX	22	22
9	3223-09XX	22	22
10	3223-10XX	22	22
11	3223-11XX	22	22
12	3223-12XX	22	22
13	3223-13XX	20	20
14	3223-14XX	20	20
15	3223-15XX	20	20
16	3223-16XX	20	20
17	3223-17XX	20	20
18	3223-18XX	20	20
20	3223-20XX	20	20
22	3223-22XX	20	20
24	3223-24XX	20	20
26	3223-26XX	18	18
28	3223-28XX	18	18
30	3223-30XX	18	18
32	3223-32XX	18	18
34	3223-34XX	18	18
36	3223-36XX	18	18
38	3223-38XX	18	18
40	3223-40XX	18	18

PIPE DIAMETER A (in)	PART NO.*	GAUGE	
		GALV.	SS
4	3224-04XX	22	22
5	3224-05XX	22	22
6	3224-06XX	22	22
7	3224-07XX	22	22
8	3224-08XX	22	22
9	3224-09XX	22	22
10	3224-10XX	22	22
11	3224-11XX	22	22
12	3224-12XX	22	22
13	3224-13XX	20	20
14	3224-14XX	20	20
15	3224-15XX	20	20
16	3224-16XX	20	20
17	3224-17XX	20	20
18	3224-18XX	20	20
20	3224-20XX	20	20
22	3224-22XX	20	20
24	3224-24XX	20	20
26	3224-26XX	18	18
28	3224-28XX	18	18
30	3224-30XX	18	18
32	3224-32XX	18	18
34	3224-34XX	18	18
36	3224-36XX	18	18
38	3224-38XX	18	18
40	3224-40XX	18	18

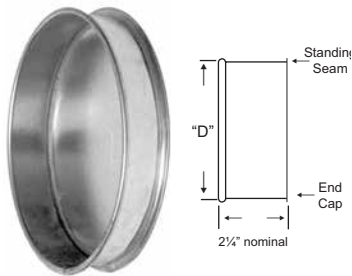
* XX = B dimension

ORDERING NOTES: Data is subject to change without notice. Stainless steel components requiring flanges will be supplied with SS flanges unless otherwise specified. Stainless steel components are manufactured with 304 SS. [Call for 316 SS Prices]. For special parts or items to be custom manufactured call for quotation.

END CAPS & REDUCER

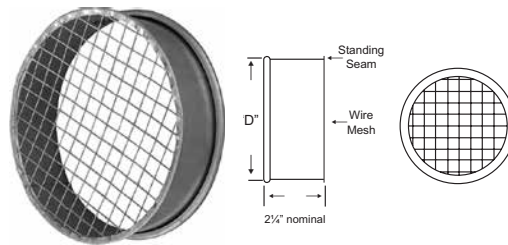
END CAP PT. 3151

End Caps enable users to close-off taps for future use.



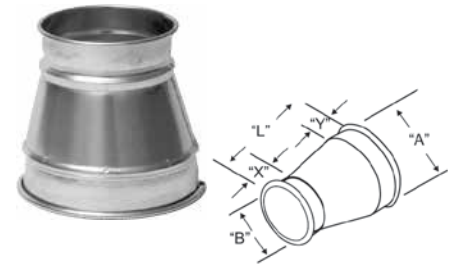
END CAP W/ SCREEN PT. 3152

Used in situations where openings are needed to allow air to enter or exit a system. Screen keeps foreign objects from entering the system.



REDUCER PT. 3222

Specify reducer end style.
Specify A, B when ordering.
Easy Duct length (L) = A-B+6", 7" min.
FL length (L) = A-B+8", 9" min.



Note: "X" & "Y" are standard 2" long.

DIAMETER D (in)	PART NO*	GAUGE
3	3151-0300	18
4	3151-0400	22
5	3151-0500	22
6	3151-0600	22
7	3151-0700	22
8	3151-0800	22
9	3151-0900	22
10	3151-1000	22
11	3151-1100	22
12	3151-1200	22
13	3151-1300	20
14	3151-1400	20
15	3151-1500	20
16	3151-1600	20
17	3151-1700	20
18	3151-1800	20
20	3151-2000	20
22	3151-2200	20
24	3151-2400	20

DIAMETER D (in)	PART NO*	GAUGE
3	3152-0300	18
4	3152-0400	22
5	3152-0500	22
6	3152-0600	22
7	3152-0700	22
8	3152-0800	22
9	3152-0900	22
10	3152-1000	22
11	3152-1100	22
12	3152-1200	22
13	3152-1300	20
14	3152-1400	20
15	3152-1500	20
16	3152-1600	20
17	3152-1700	20
18	3152-1800	20
20	3152-2000	20
22	3152-2200	20
24	3152-2400	20

DIAMETER A (in)	PART NO.	GAUGE *	
		GALV.	SS
4	3222-04XX	22	22
5	3222-05XX	22	22
6	3222-06XX	22	22
7	3222-07XX	22	22
8	3222-08XX	22	22
9	3222-09XX	22	22
10	3222-10XX	22	22
11	3222-11XX	22	22
12	3222-12XX	22	22
13	3222-13XX	22	22
14	3222-14XX	22	22
15	3222-15XX	22	22
16	3222-16XX	20	20
17	3222-17XX	20	20
18	3222-18XX	20	20
20	3222-20XX	20	20
22	3222-22XX	20	20
24	3222-24XX	20	20
26	3222-26XX	18	18
28	3222-28XX	18	18
30	3222-30XX	18	18
32	3222-32XX	18	18
34	3222-34XX	18	18
36	3222-36XX	18	18
38	3222-38XX	18	18
40	3222-40XX	18	18

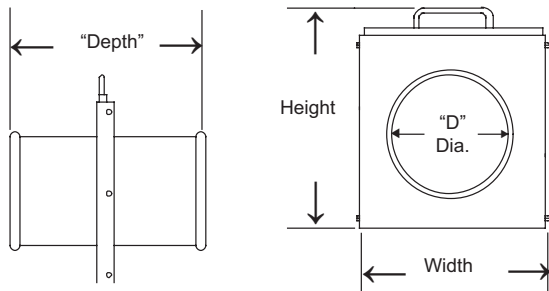
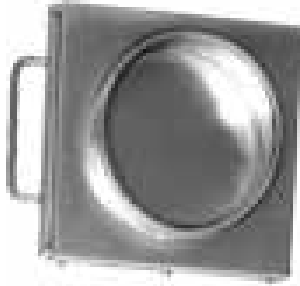
* Add -100000 to part number for galvanized
Add -200000 to part number for stainless steel

ORDERING NOTES: Data is subject to change without notice. Stainless steel components requiring flanges will be supplied with SS flanges unless otherwise specified. Stainless steel components are manufactured with 304 SS. [Call for 316 SS Prices]. For special parts or items to be custom manufactured call for quotation.

MANUAL BLAST GATES

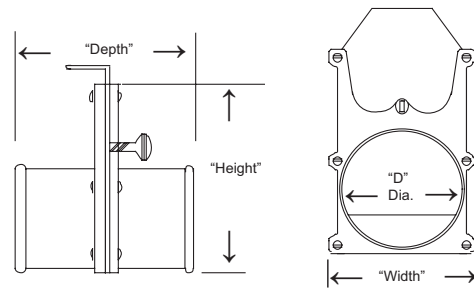
NFMES BLAST GATE PT. 3241

Shuts off airflow from machines not in use, improving suction elsewhere in the system and energy efficient. Heavy-duty seals help to prevent leakage from around the closed gate.



MANUAL BLAST GATE PT. 3240

Shuts off airflow from machines not in use, improving suction elsewhere in the system and energy efficient.



DIAMETER D (in)	PART NO.*	WIDTH	HEIGHT	DEPTH
		in		
3	3241-0300	5.25	7.00	5.375
4	3241-0400	6.12	6.25	5.375
5	3241-0500	7.00	10.00	5.00
6	3241-0600	8.00	11.12	5.00
7	3241-0700	9.37	12.00	5.00
8	3241-0800	11.00	13.25	5.00
9	3241-0900	11.37	14.37	5.00
10	3241-1000	13.50	16.25	5.00
12	3241-1200	15.75	17.87	5.00
14	3241-1400	18.00	28.50	5.00
16	3241-1600	18.00	28.50	5.00

* Add -100000 to part number for galvanized
Add -200000 to part number for stainless steel

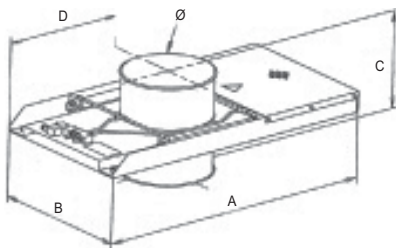
DIAMETER D (in)	PART NO.*	WIDTH	HEIGHT	DEPTH
		in		
3	3240-0300	4.25	7.00	5.25
4	3240-0400	5.25	7.00	5.50
5	3240-0500	6.12	6.25	5.75
6	3240-0600	7.00	10.00	5.75
7	3240-0700	8.00	11.12	5.38
8	3240-0800	9.37	12.00	5.50
9	3240-0900	11.00	13.25	5.50
10	3240-1000	11.37	14.37	5.50
11	3240-1100	11.37	14.37	5.50
12	3240-1200	13.50	16.25	5.25
14	3240-1400	15.75	17.87	5.25
16	3240-1600	18.00	28.50	11.25
18	3240-1800	20.80	32.75	11.25
20	3240-2000	22.25	34.00	11.25
22	3240-2200	24.25	33.50	11.25
24	3240-2400	26.25	33.50	11.25
26	3240-2600	29.25	47.50	CALL
28	3240-2800	30.25	47.50	CALL
30	3240-3000	33.25	55.75	CALL

ORDERING NOTES: Data is subject to change without notice. Stainless steel components requiring flanges will be supplied with SS flanges unless otherwise specified. Stainless steel components are manufactured with 304 SS. [Call for 316 SS Prices]. For special parts or items to be custom manufactured call for quotation.

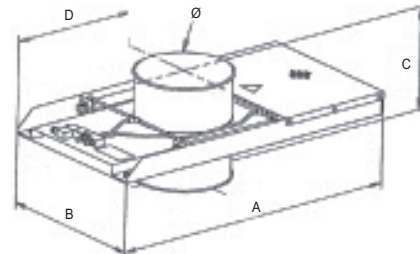
AUTOMATIC BLAST GATES

AUTO BLAST GATE 1-CYLINDER PT. 3245

AUTO BLAST GATE 2-CYLINDER PT. 3245



SINGLE CYLINDER



TWO CYLINDER

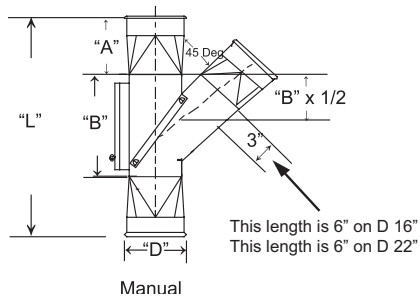
Gates are used as energy saving devices for industrial dust extraction where extraction is not always needed and where manual control needs to be eliminated. These are automatic energy saving blast gates operated by double-acting compressed air cylinders. Cylinders are controlled by electrically connected solenoid to machines or remote switch. Uses 120V control circuit and 75psi minimum air pressure.

DIAMETER (in)	PART NO.	A	B	C	D
		in			
1 Cylinder					
3	3245-0300	16.00	6.38	5.50	5.50
4	3245-0400	16.00	6.30	5.50	5.11
5	3245-0500	17.50	7.50	5.25	6.00
6	3245-0600	20.50	8.66	5.25	7.00
7	3245-0700	22.00	9.44	5.25	7.25
8	3245-0800	25.50	10.25	5.25	8.25
2 Cylinder					
9	3245-0900	33.00	17.36	9.00	14.17
10	3245-1000	33.00	17.36	9.00	14.17
12	3245-1200	38.50	20.00	9.00	15.50
14	3245-1400	41.00	23.30	12.00	16.00
16	3245-1600	45.00	23.30	12.00	17.12
18	3245-1800	48.50	25.25	12.00	18.00
20	3245-2000	52.50	27.20	12.00	19.00
22	3245-2200	57.50	29.50	12.00	20.27

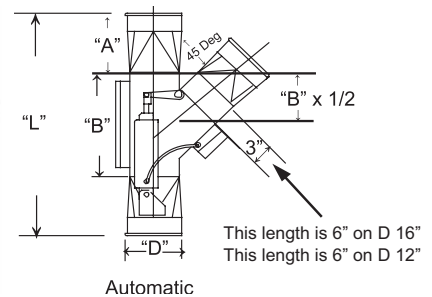
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DIVERTER VALVES

DIVERTER VALVE MANUAL PT. 3235



DIVERTER VALVE AUTOMATIC PT. 3236



Highly efficient, economical method of diverting flow of material or air. Manual or automatic operation. Constructed of heavy 3/16" thick and painted metal, with welded seams. Supplied with heavy duty flange bearings, and rubber seal in door. 45° angle uses 120V control and closes using 75 psi air pressure.

DIAMETER D (in)	PART NO.*	B	A	L	HOUSING GAUGE
		in			in
3	3235-0345	14	6	26	3/16
4	3235-0445	14	6	26	3/16
5	3235-0545	15¼	6	27¼	3/16
6	3235-0645	16	6	28	3/16
7	3235-0745	16	6	28	3/16
8	3235-0845	17	6	29	3/16
9	3235-0945	18	8	34	3/16
10	3235-1045	20	8	36	3/16
11	3235-1145	20	8	36	3/16
12	3235-1245	24	8	40	3/16
13	3235-1345	24	8	40	3/16
14	3235-1445	28	8	44	3/16
15	3235-1545	28	8	44	3/16
16	3235-1645	32	8	48	3/16
17	3235-1745	32	8	48	3/16
18	3235-1845	36	8	52	3/16
20	3235-2045	40	10	60	3/16
22	3235-2245	41¼	10	61¼	3/16
24	3235-2445	48	10	68	3/16

DIAMETER D (in)	PART NO.*	B	A	L	HOUSING GAUGE
		in			in
3	3236-0345	14	6	26	3/16
4	3236-0445	14	6	26	3/16
5	3236-0545	15¼	6	27¼	3/16
6	3236-0645	16	6	28	3/16
7	3236-0745	16	6	28	3/16
8	3236-0845	17	6	29	3/16
9	3236-0945	18	8	34	3/16
10	3236-1045	20	8	36	3/16
11	3236-1145	20	8	36	3/16
12	3236-1245	24	8	40	3/16
13	3236-1345	24	8	40	3/16
14	3236-1445	28	8	44	3/16
15	3236-1545	28	8	44	3/16
16	3236-1645	32	8	48	3/16
17	3236-1745	32	8	48	3/16
18	3236-1845	36	8	52	3/16
20	3236-2045	40	10	60	3/16
22	3236-2245	41¼	10	61¼	3/16
24	3236-2445	48	10	68	3/16

* Add -200000 to part number for stainless steel
Add -400000 to part number for black metal

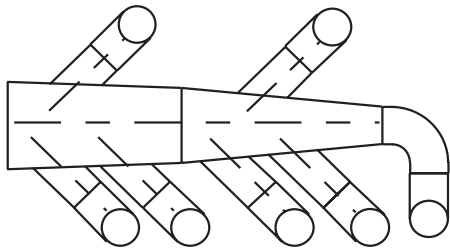
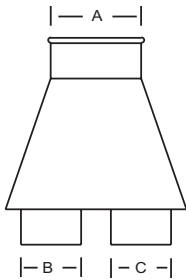
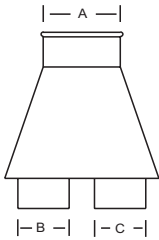
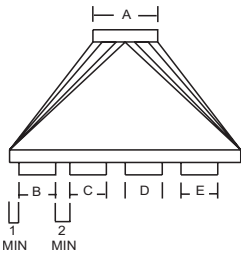
ORDERING NOTES: Data is subject to change without notice. Stainless steel components requiring flanges will be supplied with SS flanges unless otherwise specified. Stainless steel components are manufactured with 304 SS. [Call for 316 SS Prices]. For special parts or items to be custom manufactured call for quotation.

SUCTION HOOD & CUSTOM MANIFOLD

**SUCTION HOOD RECTANGLE
PT. 3230**
Specify A-E dimensions.

**SUCTION HOOD ROUND
PT. 3230**
Specify A-C dimensions.

CUSTOM MANIFOLD
Custom Manifolds are available. Contact our sales office for your particular needs.



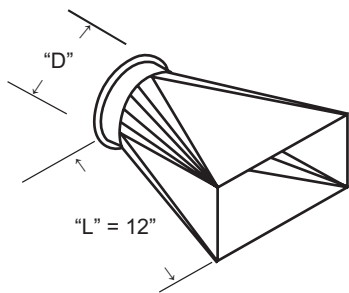
PART NO.	NO. OF PICK-UPS
3230-XX02	2
3230-XX03	3
3230-XX04	4
3230-XX05	5
3230-XX06	6

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ROUTER HOOD, RADIAL ARM SAW HOOD, & FLOOR SWEEP

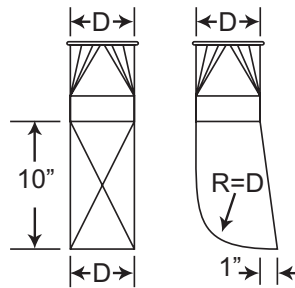
ROUTER HOOD PT. 3231

Designed specifically to collect dust from a router. Available with magnets. Edges are folded to inside for safety. Standard opening 6" x 12"



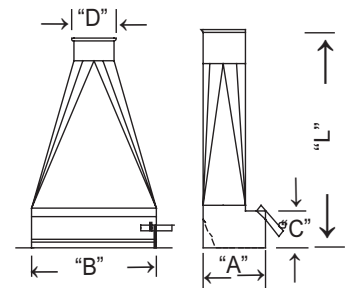
RADIAL ARM SAW HOOD PT. 3229

Used to collect dust from Radial Arm Saws.



FLOOR SWEEP PT. 3248

Quick and effective floor cleaning.



DIAMETER D (in)	PART NO.
3	3231-0300-100000
4	3231-0400-100000
5	3231-0500-100000
6	3231-0600-100000
7	3231-0700-100000
8	3231-0800-100000
9	3231-0900-100000
10	3231-1000-100000
With Magnet	
3	3232-0300-100000
4	3232-0400-100000
5	3232-0500-100000
6	3232-0600-100000
7	3232-0700-100000
8	3232-0800-100000
9	3232-0900-100000
10	3232-1000-100000

DIAMETER D (in)	PART NO.
4	3229-0400-100000
5	3229-0500-100000
6	3229-0600-100000

DIAMETER D (in)	PART NO.*	A	B	C	L
		in			
3	3248-0300	6	12	3	17
4	3248-0400	6	12	3	17
5	3248-0500	6	12	3	17
6	3248-0600	6	12	3	17
7	3248-0700	6	12	3	17
8	3248-0800	6	12	3	17
9	3248-0900	6	12	3	17
10	3248-1000	6	12	3	17
11	3248-1100	6	12	3	17
12	3248-1200	6	12	3	17

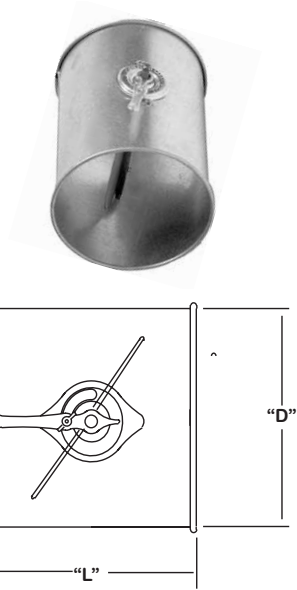
* Add -100000 to part number for galvanized
Add -200000 to part number for stainless steel

ORDERING NOTES: Data is subject to change without notice. Stainless steel components requiring flanges will be supplied with SS flanges unless otherwise specified. Stainless steel components are manufactured with 304 SS. [Call for 316 SS Prices]. For special parts or items to be custom manufactured call for quotation.

BUTTERFLY VALVE, BEAM CLAMP, PIPE BRACING, & HOSE CLAMP

BUTTERFLY VALVE PT. 3208

A locking quadrant handle enables users to regulate air volumes in clean air applications.



HOSE CLAMP PT. 3285

Standard hose clamps are used to connect rubber and FDA hoses to easy duct hose adapters. From that point, hoses can be easily detached and re-attached. Stainless steel only.



DIAMETER D (in)	PART NO.*	LENGTH (L) in	GAUGE
3	3208-0300	8	22
4	3208-0400	8	22
5	3208-0500	8	22
6	3208-0600	8	22
7	3208-0700	8	22
8	3208-0800	13	22
9	3208-0900	13	22
10	3208-1000	13	22
11	3208-1100	13	20
12	3208-1200	13	20
13	3208-1300	17	20
14	3208-1400	17	20
15	3208-1500	17	20
16	3208-1600	17	20
17	3208-1700	23	20
18	3208-1800	23	20
20	3208-2000	23	20
22	3208-2200	23	20
24	3208-2400	23	20

DIAMETER (in)	PART NO.
2	3285-0200-200000
3	3285-0300-200000
4	3285-0400-200000
5	3285-0500-200000
6	3285-0600-200000
7	3285-0700-200000
8	3285-0800-200000
9	3285-0900-200000
10	3285-1000-200000
12	3285-1200-200000
14	3285-1400-200000
16	3285-1600-200000
18	3285-1800-200000
20	3285-2000-200000
22	3285-2200-200000
24	3285-2400-200000

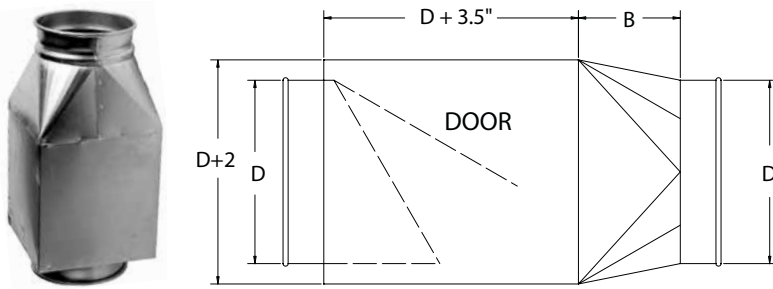
* Add -100000 to part number for galvanized. Add -200000 to part number for stainless steel

ORDERING NOTES: Data is subject to change without notice. Stainless steel components requiring flanges will be supplied with SS flanges unless otherwise specified. Stainless steel components are manufactured with 304 SS. [Call for 316 SS Prices]. For special parts or items to be custom manufactured call for quotation.

IN-LINE BACK DRAFT DAMPER & VIEWING SPOOL

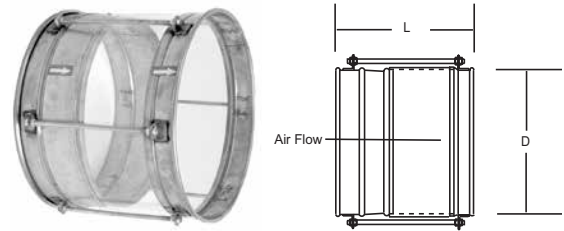
IN-LINE BACK DRAFT DAMPER PT. 3219

Used to reduce backward airflow in a horizontal line. Can be mounted vertically if airflow is upward: should be specified when ordered.



VIEWING SPOOL PT. 3205

An acrylic tube allows operators to visually verify that material in the system is flowing freely.



DIAMETER D (in)	PART NO.*	LENGTH L	LENGTH B	GAUGE
		in		
3	3219-0300	17.5	7	18
4	3219-0400	18.5	7	18
5	3219-0500	19.5	7	18
6	3219-0600	20.5	7	18
7	3219-0700	21.5	7	18
8	3219-0800	22.5	7	18
9	3219-0900	23.5	7	18
10	3219-1000	24.5	7	18
11	3219-1100	25.5	7	18
12	3219-1200	26.5	7	18
13	3219-1300	32.5	12	18
14	3219-1400	33.5	12	18
15	3219-1500	34.5	12	18
16	3219-1600	43.5	20	18
17	3219-1700	44.5	20	18
18	3219-1800	45.5	20	18
20	3219-2000	47.5	20	16
22	3219-2200	49.5	20	16
24	3219-2400	51.5	20	16
26	3219-2600	57.5	24	16
28	3219-2800	59.5	24	16
30	3219-3000	61.5	24	16
32	3219-3200	63.5"	24	16
34	3219-3400	65.5	24	16

DIAMETER D (in)	PART NO. *	LENGTH L (in)	GAUGE
3	3205-0300	12.5	22
4	3205-0400	12.5	22
5	3205-0500	12.5	22
6	3205-0600	12.5	22
7	3205-0700	12.5	22
8	3205-0800	12.5	22
9	3205-0900	12.5	22
10	3205-1000	12.5	22
11	3205-1100	12.5	22
12	3205-1200	12.5	22
13	3205-1300	12.5	20
14	3205-1400	12.5	20
15	3205-1500	12.5	20
16	3205-1600	12.5	20
18	3205-1800	12.5	20
20	3205-2000	12.5	20

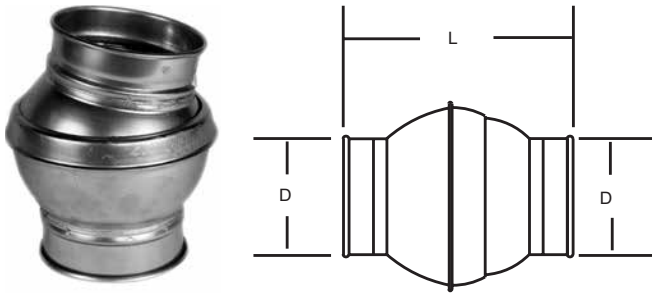
* Add -100000 to part number for galvanized
Add -200000 to part number for stainless steel

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BALL JOINT & VIBRATION ISOLATOR

BALL JOINT PT. 3209

Allows up to 22° of movement off-center. Perfect for machines with moving dust ports.

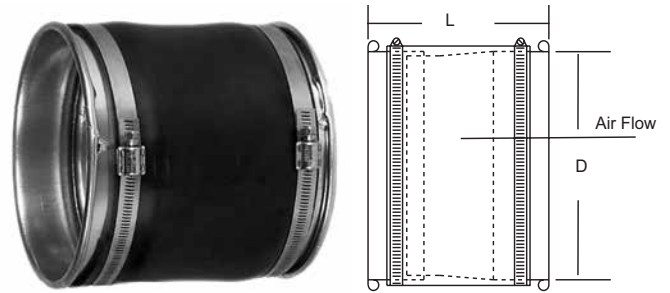


DIAMETER D (in)	PART NO. *	LENGTH L (in)	GAUGE
3	3209-0300	8	20
4	3209-0400	9	20
5	3209-0500	10.75	20
6	3209-0600	11.75	20
7	3209-0700	10.75	20
8	3209-0800	14	18
9	3209-0900	15	18
10	3209-1000	14.25	18
12	3209-1200	15.25	16
14	3209-1400	17.5	14

* Add -100000 to part number for galvanized
Add -200000 to part number for stainless steel

VIBRATION ISOLATOR PT. 3206

Reduces vibration from the fan to the ducting system.



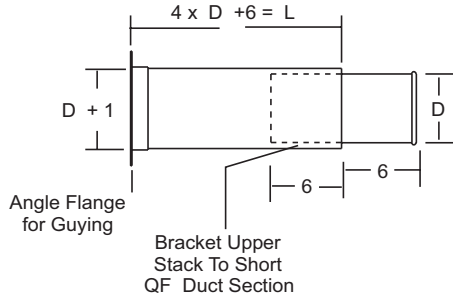
DIAMETER D (in)	PART NO. *	LENGTH L (in)	GAUGE
3	3206-0300	6.5	24
4	3206-0400	6.5	22
5	3206-0500	6.5	22
6	3206-0600	6.5	22
7	3206-0700	6.5	22
8	3206-0800	6.5	22
9	3206-0900	6.5	22
10	3206-1000	6.5	22
11	3206-1100	6.5	22
12	3206-1200	6.5	22
13	3206-1300	6.5	20
14	3206-1400	6.5	20
15	3206-1500	6.5	20
16	3206-1600	6.5	20
17	3206-1700	6.5	20
18	3206-1800	6.5	20
20	3206-2000	6.5	20
22	3206-2200	6.5	20
24	3206-2400	7	20
26	3206-2600	10	18
28	3206-2800	10	18
30	3206-3000	10	18
32	3206-3200	10	18
34	3206-3400	10	18
36	3206-3600	10	18
38	3206-3800	10	18
40	3206-4000	10	18

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NO-LOSS STACKHEAD & BLEED-IN VALVE

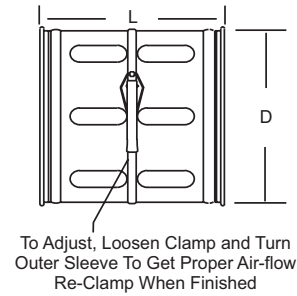
NO-LOSS STACKHEAD PT. 3204

Used when exhausting from fans or stacks through roof. Eliminates back pressure on fan while providing weather protection.



BLEED-IN VALVE PT. 3207

Used to adjust airflow to balance system by introducing ambient air.



DIAMETER D (in)	PART NO.*	GAUGE
3	3204-0300	24
4	3204-0400	22
5	3204-0500	22
6	3204-0600	22
7	3204-0700	22
8	3204-0800	22
9	3204-0900	22
10	3204-1000	22
11	3204-1100	22
12	3204-1200	22
13	3204-1300	20
14	3204-1400	20
15	3204-1500	20
16	3204-1600	20
17	3204-1700	20
18	3204-1800	20
20	3204-2000	20
22	3204-2200	20
24	3204-2400	20
26	3204-2600	20
28	3204-2800	20
30	3204-3000	18
32	3204-3200	18
34	3204-3400	18
36	3204-3600	18
38	3204-3800	18
40	3204-4000	18

DIAMETER D (in)	PART NO.*	LENGTH L (in)	NO. OF SLOTS	GAUGE
3	3207-0300	11	2	24
4	3207-0400	11	2	22
5	3207-0500	11	3	22
6	3207-0600	11	3	22
7	3207-0700	11	4	22
8	3207-0800	11	4	22
9	3207-0900	11	5	22
10	3207-1000	11	5	22
11	3207-1100	11	5	22
12	3207-1200	11	6	22
13	3207-1300	11	6	20
14	3207-1400	11	7	20
15	3207-1500	11	7	20
16	3207-1600	11	8	20
17	3207-1700	11	8	20
18	3207-1800	11	9	20
20	3207-2000	11	10	20
22	3207-2200	11	11	20
24	3207-2400	11	11	20

* Add -100000 to part number for galvanized
Add -200000 to part number for stainless steel

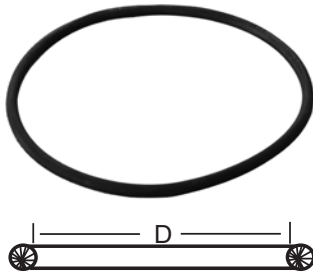
* Add -100000 to part number for galvanized
Add -200000 to part number for stainless steel

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O-RING & HANGERS

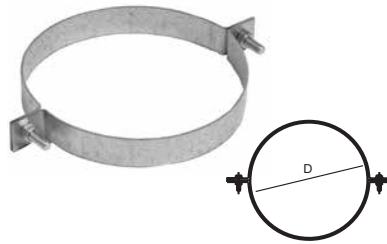
O-RING PT. 3262

Replacement O-Ring for use with Adj. Nipples. Specify Black for standard or red for high temp.



PIPE HANGER PT. 3265

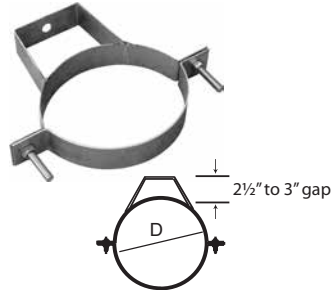
Clearance hole 5/16". Bolt size 1/4" x 3/4". Bolt are supplied with hanger.



For all hangers, make sure to check your local codes to ensure your ducting is supported properly

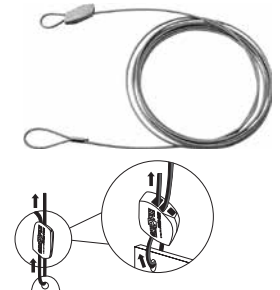
HJ PIPE HANGER PT. 3265HJ

Clearance hole 7/16". Bolt size 1/4" x 3/4". Bolt are supplied with hanger.



GRIPPLE HANGER PT. 3265

Comes in 15 ft. length



DIAMETER D (in)	PART NO.*
3	3262-0300
4	3262-0400
5	3262-0500
6	3262-0600
7	3262-0700
8	3262-0800
9	3262-0900
10	3262-1000
11	3262-1100
12	3262-1200
13	3262-1300
14	3262-1400
15	3262-1500
16	3262-1600
17	3262-1700
18	3262-1800
20	3262-2000
22	3262-2200
24	3262-2400

DIAMETER D (in)	PART NO.*
3	3265-0300
4	3265-0400
5	3265-0500
6	3265-0600
7	3265-0700
8	3265-0800
9	3265-0900
10	3265-1000
11	3265-1100
12	3265-1200
13	3265-1300
14	3265-1400
15	3265-1500
16	3265-1600
17	3265-1700
18	3265-1800
20	3265-2000
22	3265-2200
24	3265-2400
26	3265-2600
28	3265-2800
30	3265-3000
32	3265-3200
34	3265-3400
36	3265-3600
38	3265-3800
40	3265-4000

DIAMETER D (in)	PART NO.
3	3265-0300-1HJ
4	3265-0400-1HJ
5	3265-0500-1HJ
6	3265-0600-1HJ
7	3265-0700-1HJ
8	3265-0800-1HJ
9	3265-0900-1HJ
10	3265-1000-1HJ
11	3265-1100-1HJ
12	3265-1200-1HJ
13	3265-1300-1HJ
14	3265-1400-1HJ
15	3265-1500-1HJ
16	3265-1600-1HJ
17	3265-1700-1HJ
18	3265-1800-1HJ
20	3265-2000-1HJ
22	3265-2200-1HJ
24	3265-2400-1HJ

WEIGHT (lbs)	PART NO.
Up to 22	3266-1500-022LBS
Up to 100	3266-1500-100LBS
Up to 200	3266-1500-200LBS
Up to 495	3266-1500-495LBS
Up to 715	3266-1500-715LBS

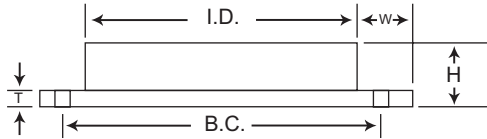
* Call for High Tem part numbers

* Add -100000 to part number for galvanized
Add -200000 to part number for stainless steel

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ANGLE FLANGE

ANGLE FLANGE PT. 3261



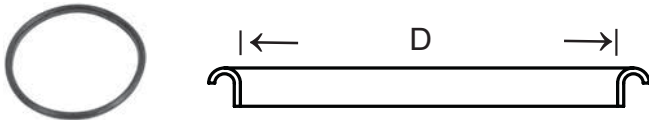
DIAMETER (in)	PART NO.	I.D.	H	W	T	B.C.	NO. OF BOLTS	DIAMETER OF BOLT HOLES
3	3261-0300	15/16	15/16	1	1/8	4 5/16	6	9/32
4	3261-0400	4 1/16	15/16	1	1/8	5 5/16	6	9/32
5	3261-0500	5 1/16	1 1/16	1	1/8	6 5/16	6	9/32
6	3261-0600	6 3/32	1	1	1/8	7 5/16	6	9/32
7	3261-0700	7 1/8	1	1 1/8	1/8	8 1/2	6	3/8
8	3261-0800	8 1/8	1 1/8	1 1/8	1/8	9 5/9	6	3/8
9	3261-0900	9 1/8	1 1/4	1 1/4	1/8	10 5/8	6	7/16
10	3261-1000	10 1/8	1 1/4	1 3/8	1/8	11 4/5	6	7/16
11	3261-1100	11 1/8	1 1/4	1 1/2	1/8	12 3/4	6	7/16
12	3261-1200	12 1/8	1 1/2	1 1/2	1/8	14	8	7/16
13	3261-1300	13 1/8	1 1/2	1 1/2	1/8	15	8	7/16
14	3261-1400	14 1/8	1 1/2	1 1/2	1/8	16	8	7/16
15	3261-1500	15 1/8	1 1/2	1 1/2	3/16	17	8	7/16
16	3261-1600	16 1/8	1 1/2	1 1/2	3/16	18	8	7/16
17	3261-1700	17 1/8	1 1/2	1 1/2	3/16	19	8	7/16
18	3261-1800	18 1/8	1 1/2	1 1/2	3/16	20	8	7/16
19	3261-1900	19 1/8	1 1/2	1 1/2	3/16	20 3/4	12	7/16
20	3261-2000	20 1/8	1 1/2	1 1/2	3/16	21 3/4	12	7/16
21	3261-2100	21 1/8	1 1/2	1 1/2	3/16	22 3/4	12	7/16
22	3261-2200	22 1/8	1 1/2	1 1/2	3/16	23 3/4	12	7/16
23	3261-2300	23 1/8	1 1/2	1 1/2	3/16	24 7/8	12	7/16
24	3261-2400	24 1/8	1 1/2	1 1/2	3/16	25 7/8	12	7/16
25	3261-2500	25 1/8	1 1/2	1 1/2	3/16	26 7/8	16	7/16
26	3261-2600	26 1/8	2	2	3/16	28 3/8	16	7/16
27	3261-2700	27 1/8	2	2	3/16	29 3/8	16	7/16
28	3261-2800	28 1/8	2	2	3/16	30 3/8	16	7/16
29	3261-2900	29 1/8	2	2	3/16	31 3/8	16	7/16
30	3261-3000	30 1/8	2	2	3/16	32 3/8	16	7/16
31	3261-3100	31 1/8	2	2	3/16	33 3/8	16	7/16
32	3261-3200	32 1/8	2	2	3/16	34 3/8	16	7/16
33	3261-3300	33 1/8	2	2	3/16	35 3/8	16	7/16
34	3261-3400	34 1/8	2	2	3/16	36 3/8	16	7/16
35	3261-3500	35 1/8	2	2	3/16	37 3/8	16	7/16
36	3261-3600	36 1/8	2	2	3/16	38 3/8	16	7/16
37	3261-3700	37 1/8	2	2	3/16	39 3/8	24	7/16
38	3261-3800	38 1/8	2	2	3/16	40 3/8	24	7/16
39	3261-3900	39 1/8	2	2	3/16	41 3/8	24	7/16
40	3261-4000	40 1/8	2	2	3/16	42 3/8	24	7/16

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OIL MIST GASKET & O-RING

MOLDED RUBBER GASKET PT. 3190

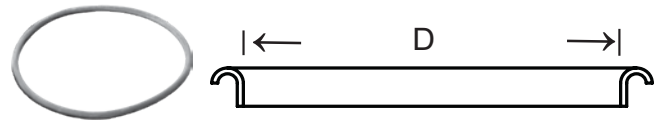
Carefully place the gasket along the rolled edge of the part, being careful to avoid kinks or voids. Only one gasket is needed per joint. Join the gasketed end of the pipe to a non-gasketed end of the next part in the ducting run using a standard Easy Duct clamp. The oil-mist gasket, in addition to the gasket inside the Easy Duct clamp, provides dual protection against leakage. Temp range -30°F to +225°F



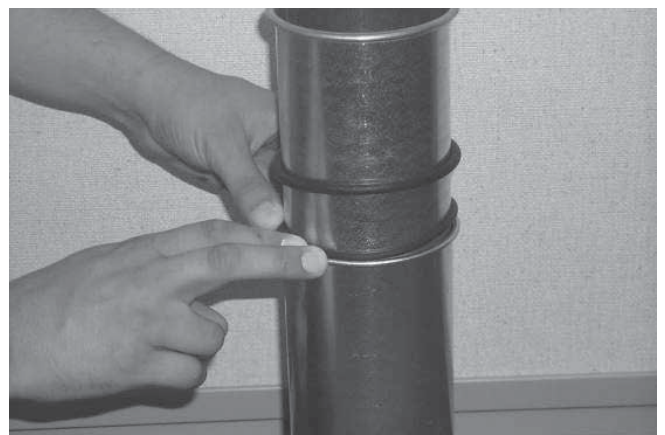
DIAMETER (in)	PART NO.
4	3190-0400-00000
5	3190-0500-00000
6	3190-0600-00000
7	3190-0700-00000
8	3190-0800-00000
9	3190-0900-00000
10	3190-1000-00000
11	3190-1100-00000
12	3190-1200-00000
14	3190-1400-00000
16	3190-1600-00000
18	3190-1800-00000
20	3190-2000-00000
22	3190-2200-00000
24	3190-2400-00000

NITRILE RUBBER O-RING PT. 3191

These materials work in conjunction with standard O-Ring. It does not replace it. Position the larger-diameter standard Nordfab O-Ring above the oil-mist ring. The order should be as follows:
 a) rolled edge or nipple; against
 b) soft, small-diameter O-Ring; against
 c) standard Nordfab O-Ring.



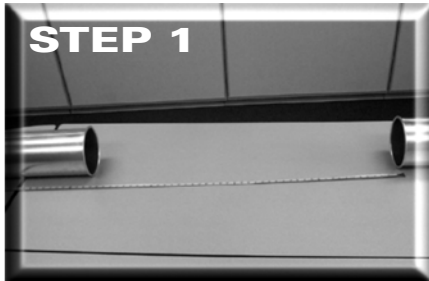
DIAMETER (in)	PART NO.
4	3191-0400-00000
5	3191-0500-00000
6	3191-0600-00000
7	3191-0700-00000
8	3191-0800-00000
9	3191-0900-00000
10	3191-1000-00000
11	3191-1100-00000
12	3191-1200-00000
14	3191-1400-00000
16	3191-1600-00000
18	3191-1800-00000
20	3191-2000-00000
22	3191-2200-00000
24	3191-2400-00000



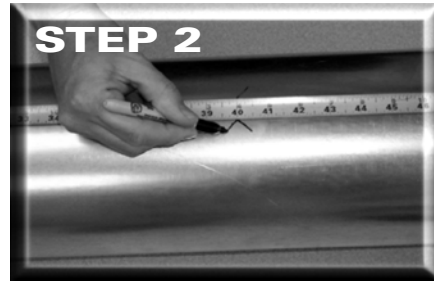
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INSTALLING AN ADJUSTABLE NIPPLE

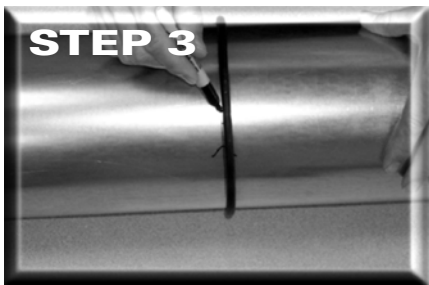
Instructions for using the “easy duct” adjustable nipple with rubber O-Ring for dry system. Each Easy Duct pipe section is 5’ in length. To shorten to accommodate an existing span, an adjustable nipple is used.



Measure distance to be spanned.



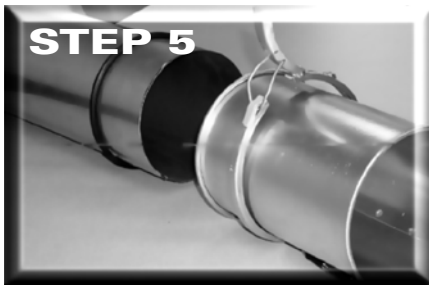
Mark distance to be spanned less 4”.



Use O-Ring provided and mark for cut.



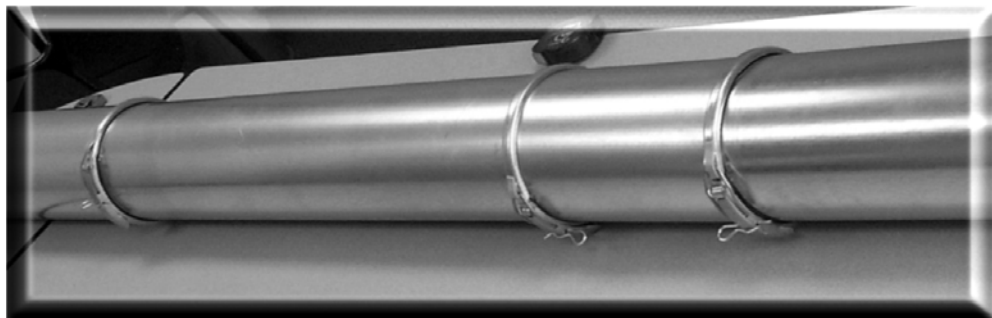
Drill access hole then cut with saw



Cut piece of pipe put O-Ring on cut pipe, slide nipple over



Snap clamp over O-Ring and one end of nipple.

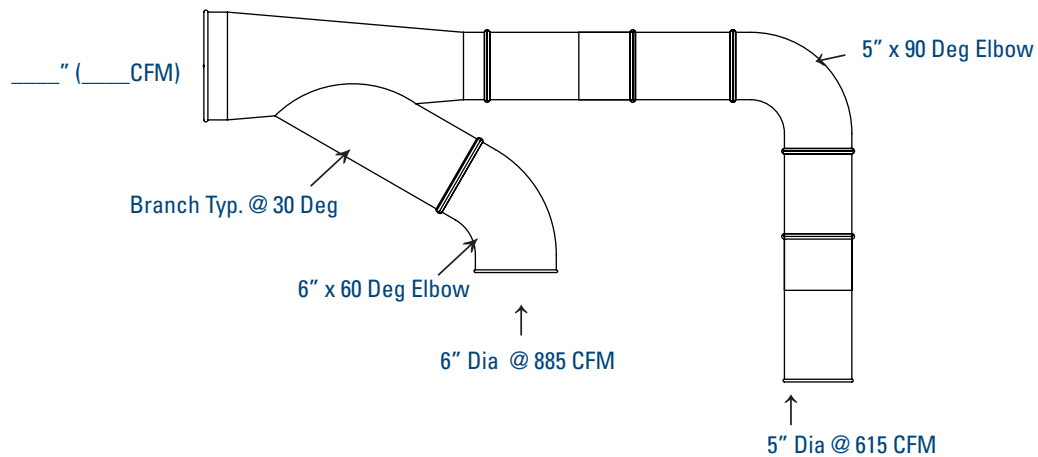


Finished connection using the adjust nipple assembly.

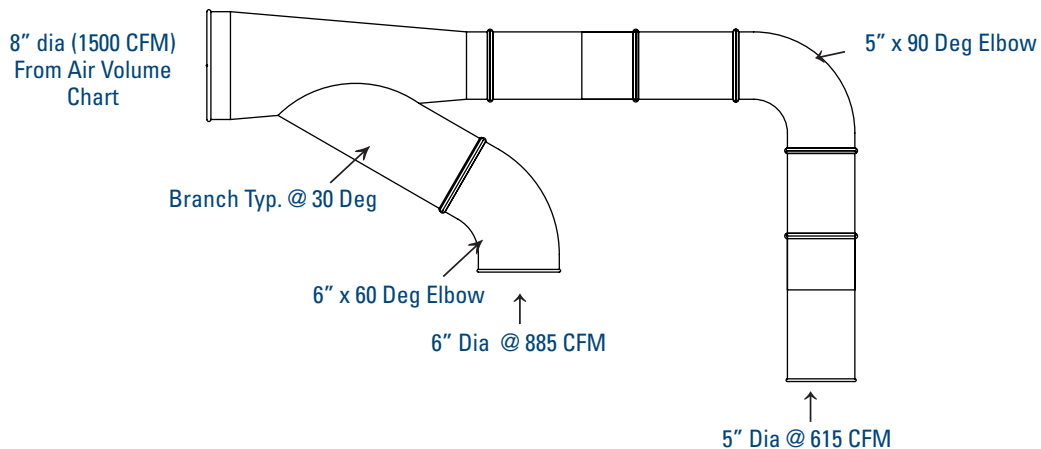
NOTE: KEEP CUT PIPE IN THE DIRECTION AS THE AIR FLOW.

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SIZING BRANCHES



EXAMPLE: Always work from your machines back toward the filter. Suppose that you have a 5" drop that rises and runs back to join with a 6" drop as sketched above. What size branch will you need?



The 5" pipe carries 615 CFM at 4500 FPM, (See Chart). The 6" pipe will need 885 CFM at the same velocity (See Chart). Added together you have a total of (615 + 885) 1500 CFM coming together. Looking again at the chart under 4500 FPM, you find that 1500 CFM is not listed, but falls very close to the 1570 CFM listed for an 8" pipe. This indicates that the 5" joined to the 6" will require an 8" pipe to carry all of the material at the right velocity. The branch, therefore, will be 8" on the downstream end reducing down to a 5" with a 6" branching off of it. That is listed as a 8-6-5 branch.

SIZING AN EASY DUCT SYSTEM

Easy Duct offers assistance to those salespeople and customers who have never designed a piping system. We can assist you in determining the correct pipe size and configuration that will supply you with the correct flow. Please call an inside Sales Representative for assistance.

USING THE CFM/FPM CHART

This chart allows you to choose the correct pipe size for the CFM that is required. Different materials need to be conveyed at different velocities to prevent the material from falling out of the air stream. For example, wood chips and saw dust flow well at 4500 feet per minute. Referring to the chart, a 4" pipe will convey 395 CFM at 4500 FPM. This indicates that a 4" pick-up on a machine will use 395 CFM from the filtering system. Or working in reverse, if you know that a machine will require approximately 400 CFM to remove the waste, then you should design a 4" pipe for the application.

AIR VOLUME IN DUCTS IN CUBIC FEET PER MINUTE (CFM)											
VELOCITY IN FEET PER MINUTE (FPM)											
DIAMETER (IN)	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000
3	100	125	150	170	195	220	245	270	295	320	345
4	175	220	260	305	350	395	440	485	525	570	615
5	275	340	410	475	545	615	680	750	820	885	955
6	395	490	590	685	785	885	980	1080	1180	1275	1375
7	535	670	800	935	1070	1205	1335	1470	1605	1735	1870
8	700	875	1050	1220	1395	1570	1745	1920	2095	2270	2445
9	885	1105	1325	1545	1765	1990	2210	2430	2650	2870	3090
10	1090	1365	1635	1910	2180	2455	2725	3000	3270	3545	3820
11	1320	1650	1980	2310	2640	2970	3300	3630	3960	4290	4620
12	1570	1965	2355	2750	3140	3535	3925	4320	4710	5105	5500
13	1850	2300	2770	3225	3685	4150	4610	5070	5530	5990	6450
14	2140	2675	3205	3740	4275	4810	5345	5880	6415	6950	7485
15	2450	3070	3680	4300	4900	5520	6130	6750	7360	7970	8590
16	2790	3490	4190	4885	5585	6285	6980	7680	8380	9075	9775
17	3150	3940	4730	5515	6300	7090	7880	8670	9450	10240	11030
18	3535	4420	5300	6185	7070	7950	8835	9720	10600	11485	12370
20	4365	5455	6545	7635	8725	9815	10910	12000	13090	14180	15270
22	5280	6600	7920	9240	10560	11880	13200	14520	15840	17160	18480
24	6285	7855	9425	10995	12656	14135	15710	17280	18850	20420	21995
26	7370	9210	11055	12900	14740	16580	18420	20270	22110	23950	25800
28	8550	10685	12820	14960	17100	19230	21310	23500	25650	27780	29920
30	9800	12260	14700	17170	19625	22080	24530	26990	29440	31890	34350
32	11160	13950	16750	19541	22330	25120	27910	30700	33490	26280	39070
34	12600	15755	18905	22055	25210	28360	31510	34660	37810	40965	44115
36	14130	17665	21195	24730	28260	31800	35325	38860	42390	45925	49455
38	15745	19680	23615	27550	31490	35425	39360	43295	47230	51170	55100
40	17445	21800	26170	30530	34890	39250	43610	47975	52330	56700	61055

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CONDITION OF SALE

GENERAL CONDITIONS OF SALE

The terms and conditions of acceptance of sale set forth herein, and all drawings, specifications, descriptions and other documents attached hereto and incorporated here in by reference constitute the entire agreement between Easy Duct (seller) and the buyer. Seller's acceptance of his order is expressly conditioned by the buyer's consent to the terms contained herein. The terms and conditions of the seller's proposal (if any) and acknowledgment shall prevail over any conflicting or different terms in buyer's order unless buyer notifies seller in writing of its objections thereto within (15) fifteen days from receipt of seller's acknowledgment. The failure of Seller to object to any provision in conflict herewith whether contained in Buyer's purchase order or otherwise, shall not be construed as a waiver of the provisions hereof nor as an acceptance thereof. Seller's proposal is only preliminary unless it is otherwise confirmed. If any of the four terms and conditions of Seller's proposal conflict with these general conditions of sale, those contained in the proposal shall prevail.

WARRANTIES

The Seller warrants that the products sold hereunder conform to any applicable drawings and specifications accepted in writing by Seller and will be free from any defects in material and workmanship which become apparent under normal use, and of which Buyer gives written notice to Seller within a period of 6 months from the date of installation or 12 months from the date of shipment, whichever period first expires. If, within that period, the Seller receives from Buyer written notice of any alleged defect in or non-conformance of any product and if, in Seller's sole judgement, the product does not conform or is found to be defective in material or workmanship, then Buyer shall, at Seller's request, return the part or product F.O.B. Seller's shipping point and Seller at its option and expense, shall repair or replace the defective part or product or repay the Buyer the full price paid for such part or product by Buyer. Dismounting and reinstallation of defective or nonconforming parts is done at Buyer's expense. Warranty for delivery of spare parts or replacement for non-conforming parts expires when warranty for original equipment expires. Any repayment of purchase price shall be without interest. Seller's sole responsibility, and Buyer's exclusive remedy hereunder shall be limited to such repair, replacement, or repayment of the purchase price as above provided. There are no other warranties, expressed, statutory or implied, including those of merchantability, quality or fitness for purpose, nor any affirmation of fact or representation which extends beyond the description on the face here of. The warranties of Seller do not cover and Seller makes no warranty with respect to:

- A) failures not reported to Seller within the warranty period specified above;
- B) failure or damage due to misapplication, abuse, improper installation or abnormal conditions of temperature, dirt or other corrosive matter;
- C) failures due to operation, either intentional or otherwise, above rated capacities or in an otherwise improper manner;
- D) products which have been in any way tampered with or altered by anyone other than an authorized representative of Seller;
- E) products damaged in shipment or otherwise without fault of Seller;
- F) expenses incurred by Buyer in an attempt to repair or rework any alleged defective product, and defects in material and workmanship which are attributable to drawings and specifications provided by Buyer.

CLAIMS FOR SHORTAGES

Any claim for loss, breakage (obvious or concealed) are Buyer's responsibility and should be made to the carrier immediately. Seller will render Buyer reasonable assistance in securing satisfactory adjustment of such claims. Any notices of shortages or other errors must be made in writing to Seller within 15 days after receipt of shipment. Failure to give such notice shall constitute unqualified acceptance and a waiver of all claims by Buyer. Risk of loss for damages to the products sold hereunder passes to Buyer upon delivery to the carrier regardless of who pays shipping costs.

LIMITATION OF LIABILITY

Seller's sole responsibility and Buyer's sole and exclusive remedy with respect to any breach of warranty or guarantee under this agreement shall be limited to repair, replacement or repayment of the purchase price at Seller's sole option. Seller's total responsibility and liability for any and all claims, damages of any nature, losses, liabilities or costs of corrective efforts, including but not limited to those relating to any warranty or guarantee arising out of or related to performance of this agreement or the products covered hereunder or the performance thereof shall not exceed the purchase price. In no event shall Seller be liable for any special, indirect, incidental or consequential damages of any character; including but not limited to, loss of use of productive facilities or equipment, lost profits, property damage, expense incurred in reliance on Seller's performance hereunder or lost production, whether suffered by Buyer or any third party. Seller disclaims all liability for any and all costs, claims, demands, charges, expenses or other damages, either direct or indirect, incident to all property damages arising out of any cause of action based on strict liability.

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Important Notice

Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, product specifications, availability and data are subject to change without notice, and may vary by region or country.



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