



Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
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Phone 501-834-3320
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Date: 2/4/2025

Return Request: 2/14/2025

Project: City Of Sherwood Public Works (Maintenance Building)

Supplier: Dollar Sheet Metal

Manufacturer: Various

Submittal: Air Duct Accessories

Submittal Number: 23 33 00-01

Drawing # and Installation: Mechanical Drawings

ARCHITECT

Cromwell
1300 East 6th Street
Little Rock, AR 72202
501-372-2900

ENGINEER

Cromwell
1300 East 6th Street
Little Rock, AR 72202
501-372-2900

GENERAL CONTRACTOR

Baldwin & Shell
1000 W. Capitol Ave.
Little Rock, AR 72201
501-374-8677

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc.
9924 Landers Rd.
N. Little Rock, AR 72117
501-834-3320

Notes:

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CSUSA PROJECT NO.

24-6084

sean@comfortar.com

9924 Landers Rd.
No. Little Rock, AR 72117

Dace Mfg.

orders@dacemfg.co

SUBMITTAL

Feb 2015

ROUND MANUAL BALANCE DAMPER

MODEL: RMBD CO3

Purpose Description:

The round manual balancing damper is used to regulate air flow in pipe.

CONSTRUCTION:

BARREL: (B) 6" long, beaded & tapered.

ALL DIAMETERS: (A) sized 1/8" under nominal

BODY MATERIAL:

26 gauge standard

OPTIONS:

24 gauge steel

22 gauge steel

SS 304

DAMPER BLADES:

26 gauge standard

OPTIONS:

24 GA,

22 GA steel,

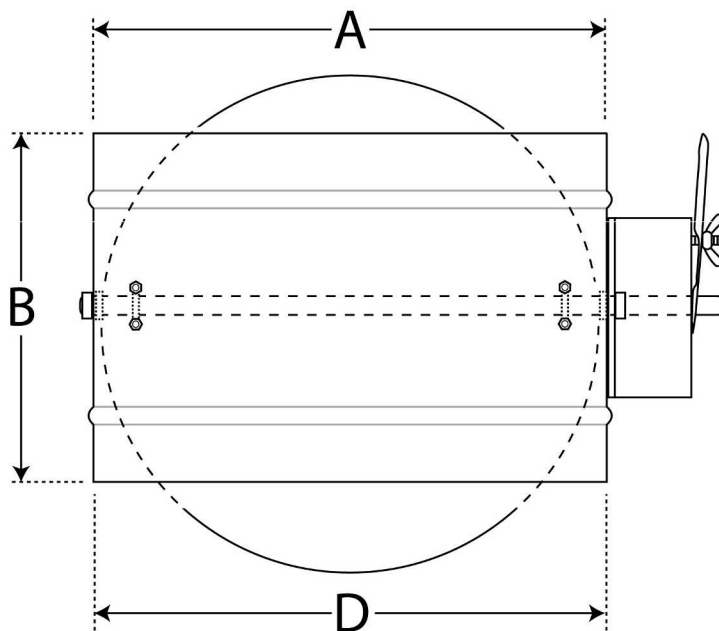
20 gauge—16 gauge steel

SS 304

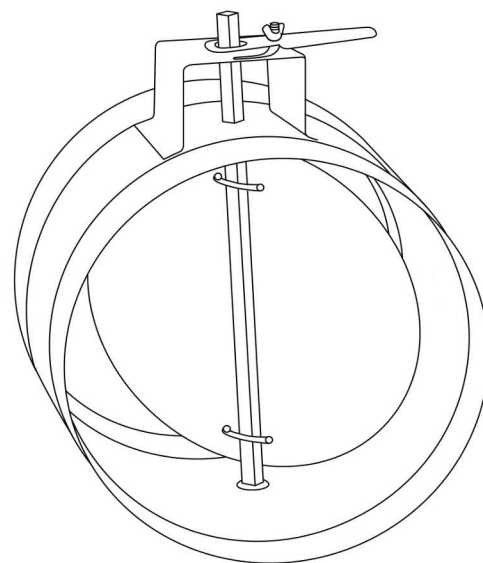
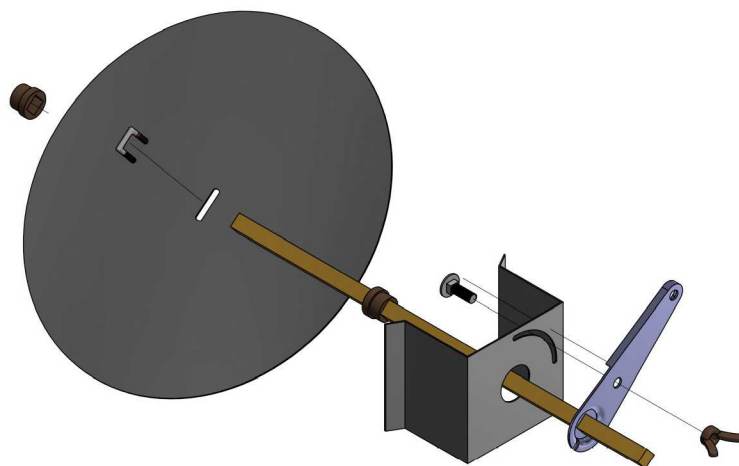
DAMPER CONTROL:

CO3 - 2" raised handle, locking quadrant, 3/8" square continuous rod, 'U' bolts, nylon bearings

All stainless steel option



RMBD-CO3



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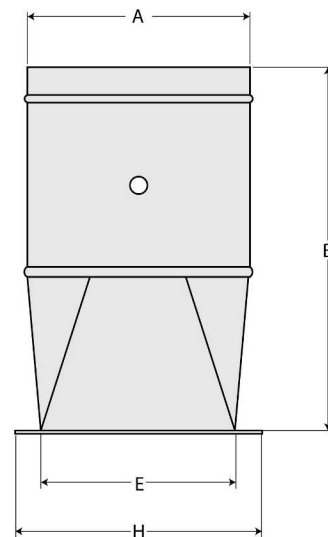
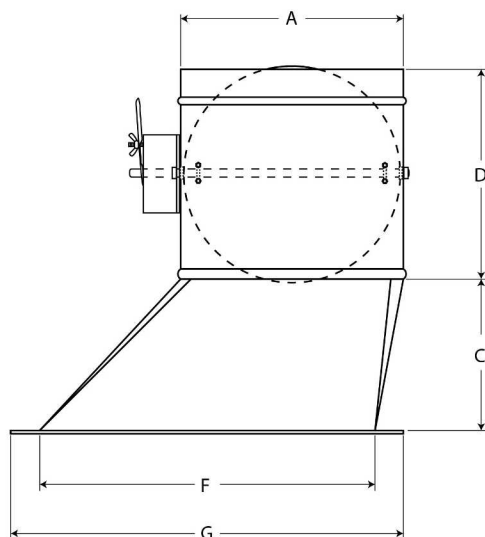
SUBMITTAL

Feb 2016

SIDE TAKEOFF FITTING w DAMPER

MODEL: **STOD CO3**

HIGH EFFICIENCY TAKEOFF



SIZE	A	B	C	D	E	F	G	H
4	3 7/8	9	6	3	4	8	10	6
5	4 7/8	9	6	3	5	9	11	7
6	5 7/8	9	6	3	5	9	11	7
7	6 7/8	9	6	3	6	11	13	8
8	7 7/8	9	6	3	6	12	14	8
9	8 7/8	9	6	3	7	13	15	9
10	9 7/8	9	6	3	8	14	16	10
12	11 7/8	9	6	3	10	16	18	12
14	13 7/8	9	6	3	12	18	20	14
16	15 7/8	9	6	3	14	20	22	16
18	17 7/8	9	6	3	16	22	24	18
20	19 7/8	9	6	3	18	24	26	20

STANDARD CONSTRUCTION DETAILS

- 26 gauge G90/60 corrosion resistant steel
- 1" flange with die formed corners & pre punched mounting holes
- entire unit is spot welded, SMACNA 3" WG minimum
- adhesive coated rubber perimeter gasket
- CO3 damper control: a 2" raised locking quadrant, 3/8" sq. axle, nylon bearings, fastened to the damper with U bolts.

OPTIONS IN CONSTRUCTION

- material 24 ga, 22 ga galvanized steel,
- all aluminum or all stainless steel

SUBMITTAL

Product: Flexible Duct Connector

Manufacturer: DURO DYNE

Job Name: Sherwood Public Works

Location: N. Little Rock, AR

Date: January 24, 2025

SUBMITTAL RECORD

JOB _____
 LOCATION _____
 SUBMITTED TO _____
 SUBMITTAL PREPARED BY _____
 APPROVED BY _____
 DATE _____



Specification Form Stainless DDFDC

Flexible Duct Connector

DESCRIPTION

All air duct installations for heating, cooling or ventilation are attached to mechanical equipment containing a fan or blower. Vibrations, noises and rattles resulting from operation of the fan or blower are transmitted into the metal ducts which carry the noises throughout the system.

In order to isolate the vibration and noises to the source, an air-tight flexible joint, consisting of a fabric which is attached to sheet metal on both side, must be inserted between the equipment and the ductwork. This vibration isolator is called a "Flexible Duct Connector".



FABRIC COMPARISONS	Excelon [®] 4	Neoprene	Durolon	Teflon
Continuous Temp. Range	-40°F. to 180°F.	-40°F. to 200°F.	-40°F. to 250°F.	-150°F. to 500°F.
Color	Black	Black	White	Grey Outside/ Beige Inside
Weight Per Square Yard	22	30	30±2 oz.	16.5
Leakage Resistance ¹	350	595	250	650
Tear Strength ²	100/100	12/12	20/20	50/30
Tensile Strength ³	240/220	500/450	475/375	400/300
ASTM E84 (Flame/Smoke)	10/250	10/55	10/120	0/5
NFPA 701	Yes	Yes	Yes	No
Base Fabric	Woven Nylon/ Polyester Blend	Woven Fiberglass	Woven Fiberglass	Fiberglass/Stain Weave
Coating	Vinyl	Neoprene	Hypalon	Teflon
Features	High Tear Strength High Abrasion Resistance	General Purpose	Excellent Ozone and Weathering Resistance Best Overall Acid Resistance	High Temperature Resistance High Corrosion Resistance Excellent Chemical Resistance
Metal-Fab 3x3x3 Grip Loc ⁺	MBXSS333 (#10231)	MFNSS333 (#10232)	MFDSS333 (#10234)	MCTSS333 (#10292)
TDC/TDF 4x4x4 Grip Loc	MBXSS444 (#10259) MBX316SS444 (#10275)	MFNSS444 (#10260)	MFD316SS444 (#10276)	MCTSS444 (#10293)
TDC/TDF 4x6x4 Grip Loc	MBXSS464 (#10262)	N/A	N/A	N/A

All stainless steel Flexible Duct Connector is manufactured by Duro Dyne with stainless steel type 304 stainless except those with 316 in the description (#10275 & #10276), .015 in thickness, with a 2B finish.

*304 stainless steel: Item # 10231, 10232, 10234, 10259, 10260, 10262, 10292 and 10293

*316 stainless steel: Item # 10275, 10276

Notes:

1. Leakage resistance as per Federal Test Standard 191 Method #5512. Results in P.S.I. (To convert inches of water multiply P.S.I. x 27.176.).
2. Tear strength in tongue pounds as per Federal Test Standard 191 Method #5134.1 (warp/fill).
3. Tensile strength in grab pounds as per Federal Test Standard 191 Method #5100 (warp/fill).
4. Standard Excelon is not LA city approved. Use Excelon-LA when LA city approval is necessary. (See Specification Form Excelon-LA - 203)

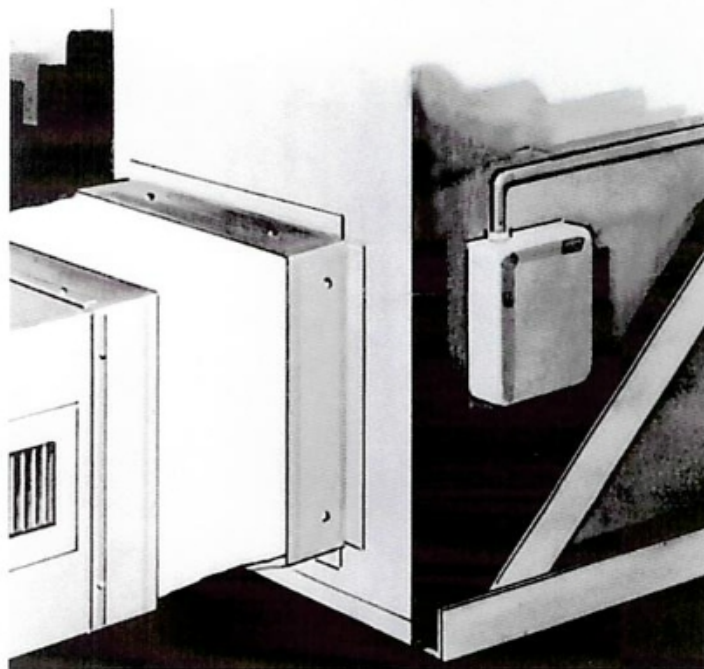
SUGGESTED SPECIFICATION

Vibration Isolating Flexible Duct Connector For Heating, Cooling & Exhaust Supplies & Returns.

At the inlet and discharge of all air handling equipment(unless otherwise noted) furnish and install vibration isolators. Vibration isolators shall be a coated woven fabric named _____ and shall be "Underwriters Laboratories Classified".

Vibration isolators shall have a tear strength of not less than _____, an abrasion resistance of not less than _____, and a continuous temperature range of _____. Vibration isolators shall be preassembled metal to exposed fabric to metal. Fabric and metal shall be joined by means of a double lock seam.

Vibration isolators shall be code _____ (called Flexible Duct Connectors) as manufactured by Duro Dyne Corporation, Bay Shore, N.Y.



Specifications

All Listed Duro Dyne Flexible Duct Connector Fabrics are designed to meet the following specifications:

1. MIL-C-20696B Para. 4.4.3. (Oil Resistance).
2. MIL-C-20696B Para. 4.4.4. (Hydro Carbon Resistance).
3. NFPA701 Tests for Flame Propagation of Fabrics and film (except Teflon).
4. California State Fire Marshal Approved.
5. Los Angeles City Approved. (See note 1 below)
6. Denver City Approved.

CHEMICAL RESISTANCE

(X = Extremely Resistant)

(~ = Not Recommended)

(O = No Data Available)

Chemical	Excelon	Neoprene	Durodon	Teflon	Chemical	Excelon	Neoprene	Durodon	Teflon
Acetic Acid	~	X	X	X	Hydrofluoric Acid (100%)	~	X	X	X
Aluminum Chloride	X	X	X	X	Hydrogen Peroxide	X	~	X	NR
Aluminum Sulfate	X	X	X	X	Hydrogen Sulfide	X	X	X	X
Ammonia (Anhyd)	X	X	X	X	Lactic Acid	~	X	X	X
Ammonium Hydroxide	X	X	X	X	Linseed Oil	~	X	X	O
Ammonium Sulfate	X	X	X	X	Magnesium Chloride	~	X	X	X
Barium Sulfide	X	X	X	X	Maleic Acid	X	~	X	O
Black Sulfate Liquor	X	X	X	X	Methyl Alcohol	~	X	X	X
Boric Acid	X	X	X	X	Methyl Cellosolve	~	X	X	O
Butyl Alcohol	~	X	X	X	Mineral Oil	X	X	X	X
Cadmium Plating Solution	X	~	~	O	Naptha	~	~	~	X
Calcium Chloride	X	X	X	X	Nickel Chloride	X	X	X	X
Calcium Hypochlorite	X	~	X	X	Nickel Sulfate	X	X	X	X
Chlorine Water	X	~	~	O	Nitric Acid (40%)	X	~	X	X
Chromic Acid	X	~	X	X	Oleic Acid	X	~	~	X
Chromium Plating Solution	X	O	O	O	Oleum	~	~	X	X
Citric Acid	X	X	X	X	Oxalic Acid	X	X	X	X
Copper Chloride	X	X	X	X	Phosphoric Acid (85%)	~	X	X	X
Copper Sulfate	X	X	X	X	Pickling Solution	X	~	X	O
Cottonseed Oil	X	X	X	O	Potassium Chloride	X	X	X	O
Diacetone Alcohol	~	X	X	O	Potassium Cyanide	X	X	X	X
Disodium Phosphate	X	~	~	O	Potassium Dichromate	X	X	X	X
Ethyl Alcohol	~	X	X	X	Potassium Hydroxide (40%)	X	X	X	X
Ethylene Glycol	~	X	X	X	Potassium Sulfate	X	X	X	X
Ferric Chloride	X	X	X	X	Propyl Alcohol	~	X	X	O
Ferric Sulfate	X	X	X	X	Sodium Chloride	X	X	X	X
Fluoroboric Acid	X	X	X	O	Sodium Hydroxide (40%)	~	X	X	X
Formaldehyde (40%)	X	X	X	X	Sodium Hypochlorite	~	~	X	X
Formic Acid	X	X	X	X	Steam	~	X	~	X
Glucose	X	X	X	X	Sulfur Dioxide (Liquid)	~	X	X	X
Glycerine	~	X	X	X	Sulfuric Acid (50%)	X	~	X	X
Heptane	~	X	X	X	Sulfuric Acid (over 50%)	~	~	X	X
Hexane	~	X	X	X	Tannic Acid	X	X	X	X
Hydrobromic Acid (40%)	~	X	X	X	Vinegar	X	X	X	X
Hydrochloric Acid (conc)	~	X	X	X					

Duro Dyne Corporate Headquarters, Bay Shore, NY

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3/1/2023
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