

SUBMITTAL RECORD

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

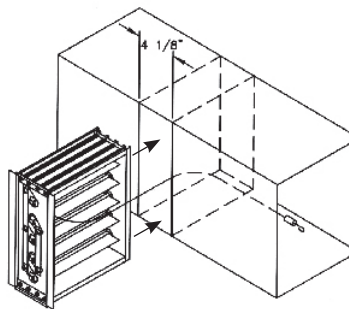


Submittal Form

Rectangular Opposed Blade Internal Cable Operated Damper

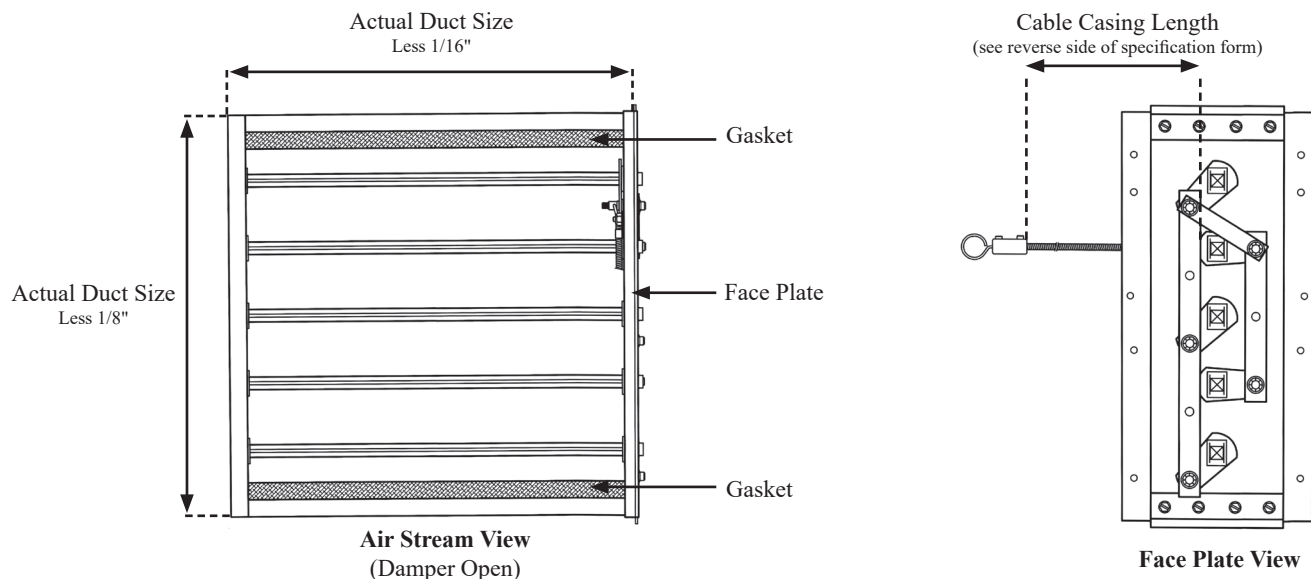
DESCRIPTION:

Duct systems are designed to supply a specific volume of air to a space. However, air flow adjustment is sometimes required to achieve original design parameters. Installation of a cable operated balancing damper allows the balancing contractor a convenient way to adjust air volume without entering the ceiling space. The cable operated damper is inserted through a slot in the side of the duct upstream of the diffuser. The adjustment cable is typically passed through the neck of the air device, in the airstream and is accessible for adjustment through the face of the air device. Once the air volume is satisfactory, the cable position is locked with a set screw and the cable is pushed into the neck of the air device, hidden from view.

**SUGGESTED SPECIFICATIONS:**

Rectangular Opposed Blade Internal Cable Operated Dampers shall be Duro Dyne CODS type dampers. Damper blades and frames shall be manufactured of extruded aluminum. Cable case shall be galvanized steel; solid core control wire shall be stainless steel. Installation shall be as described in the Duro Dyne cable operated damper instructions. Sizes and locations shall be as indicated on the mechanical drawings.

Internal Cable Operated Damper



Damper Specifications			
Damper Component	Material	Width	Depth
Frame	Extruded Aluminum	4-1/16"	1/2"
Face Plate	Extruded Aluminum	5-9/16" (includes two 3/4" flanges)	5/16"
Blade	Extruded Aluminum	2-3/4"	3/32"
Gasket (on even heights only)	Vinyl Nitrile	3/4"	1/2"
Bushings for blades are nylon 5/8" outside diameter with a 3/8" square hole			
All blade linkage is 16 gage galvanized steel. Damper blades are 22 gage galvanized steel.			
Cable Specifications			
Case O.D.	Case I.D.	Casing Material	Solid Core Wire Size
.187	.080	Galvanized Steel	.055 Stainless Steel

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Item#	Code	Size	Cable Length
54276	CODS080403	8x4	3ft
54277	CODS080405		5ft
54278	CODS080408		8ft
54279	CODS080410		10ft
54280	CODS080415		15ft
54281	CODS100403	10x4	3ft
54282	CODS100405		5ft
54283	CODS100408		8ft
54284	CODS100410		10ft
54285	CODS100415		15ft
54286	CODS120403	12x4	3ft
54287	CODS120405		5ft
54288	CODS120408		8ft
54289	CODS120410		10ft
54290	CODS120415		15ft
54291	CODS140403	14x4	3ft
54292	CODS140405		5ft
54293	CODS140408		8ft
54294	CODS140410		10ft
54295	CODS140415		15ft
54001	CODS060603	6x6	3ft
54002	CODS060605		5ft
54003	CODS060608		8ft
54004	CODS060610		10ft
54005	CODS060615		15ft
54006	CODS080603	8x6	3ft
54007	CODS080605		5ft
54008	CODS080608		8ft
54009	CODS080610		10ft
54010	CODS080615		15ft
54011	CODS100603	10x6	3ft
54012	CODS100605		5ft
54013	CODS100608		8ft
54014	CODS100610		10ft
54015	CODS100615		15ft
54016	CODS120603	12x6	3ft
54017	CODS120605		5ft
54018	CODS120608		8ft
54019	CODS120610		10ft
54020	CODS120615		15ft
54021	CODS140603	14x6	3ft
54022	CODS140605		5ft
54023	CODS140608		8ft
54024	CODS140610		10ft
54025	CODS140615		15ft
54026	CODS160603	16x6	3ft
54027	CODS160605		5ft
54028	CODS160608		8ft
54029	CODS160610		10ft
54030	CODS160615		15ft
54031	CODS180603	18x6	3ft
54032	CODS180605		5ft
54033	CODS180608		8ft
54034	CODS180610		10ft
54035	CODS180615		15ft

Item#	Code	Size	Cable Length
54036	CODS200603	20x6	3ft
54037	CODS200605		5ft
54038	CODS200608		8ft
54039	CODS200610		10ft
54040	CODS200615		15ft
54041	CODS220603	22x6	3ft
54042	CODS220605		5ft
54043	CODS220608		8ft
54044	CODS220610		10ft
54045	CODS220615		15ft
54046	CODS240603	24x6	3ft
54047	CODS240605		5ft
54048	CODS240608		8ft
54049	CODS240610		10ft
54050	CODS240615		15ft
54051	CODS080803	8x8	3ft
54052	CODS080805		5ft
54053	CODS080808		8ft
54054	CODS080810		10ft
54055	CODS080815		15ft
54056	CODS100803	10x8	3ft
54057	CODS100805		5ft
54058	CODS100808		8ft
54059	CODS100810		10ft
54060	CODS100815		15ft
54061	CODS120803	12x8	3ft
54062	CODS120805		5ft
54063	CODS120808		8ft
54064	CODS120810		10ft
54065	CODS120815		15ft
54066	CODS140803	14x8	3ft
54067	CODS140805		5ft
54068	CODS140808		8ft
54069	CODS140810		10ft
54070	CODS140815		15ft
54071	CODS160803	16x8	3ft
54072	CODS160805		5ft
54073	CODS160808		8ft
54074	CODS160810		10ft
54075	CODS160815		15ft
54076	CODS180803	18x8	3ft
54077	CODS180805		5ft
54078	CODS180808		8ft
54079	CODS180810		10ft
54080	CODS180815		15ft
54081	CODS200803	20x8	3ft
54082	CODS200805		5ft
54083	CODS200808		8ft
54084	CODS200810		10ft
54085	CODS200815		15ft
54086	CODS220803	22x8	3ft
54087	CODS220805		5ft
54088	CODS220808		8ft
54089	CODS220810		10ft
54090	CODS220815		15ft

Item#	Code	Size	Cable Length
54091	CODS240803	24x8	3ft
54092	CODS240805		5ft
54093	CODS240808		8ft
54094	CODS240810		10ft
54095	CODS240815		15ft
54096	CODS101003	10x10	3ft
54097	CODS101005		5ft
54098	CODS101008		8ft
54099	CODS101010		10ft
54100	CODS101015		15ft
54101	CODS121003	12x10	3ft
54102	CODS121005		5ft
54103	CODS121008		8ft
54104	CODS121010		10ft
54105	CODS121015		15ft
54106	CODS141003	14x10	3ft
54107	CODS141005		5ft
54108	CODS141008		8ft
54109	CODS141010		10ft
54110	CODS141015		15ft
54111	CODS161003	16x10	3ft
54112	CODS161005		5ft
54113	CODS161008		8ft
54114	CODS161010		10ft
54115	CODS161015		15ft
54116	CODS181003	18x10	3ft
54117	CODS181005		5ft
54118	CODS181008		8ft
54119	CODS181010		10ft
54120	CODS181015		15ft
54121	CODS201003	20x10	3ft
54122	CODS201005		5ft
54123	CODS201008		8ft
54124	CODS201010		10ft
54125	CODS201015		15ft
54126	CODS221003	22x10	3ft
54127	CODS221005		5ft
54128	CODS221008		8ft
54129	CODS221010		10ft
54130	CODS221015		15ft
54131	CODS241003	24x10	3ft
54132	CODS241005		5ft
54133	CODS241008		8ft
54134	CODS241010		10ft
54135	CODS241015		15ft
54136	CODS121203	12x12	3ft
54137	CODS121205		5ft
54138	CODS121208		8ft
54139	CODS121210		10ft
54140	CODS121215		15ft
54141	CODS141203	14x12	3ft
54142	CODS141205		5ft
54143	CODS141208		8ft
54144	CODS141210		10ft
54145	CODS141215		15ft

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Item#	Code	Size	Cable Length
54146	CODS161203	16x12	3ft
54147	CODS161205		5ft
54148	CODS161208		8ft
54149	CODS161210		10ft
54150	CODS161215		15ft
54151	CODS181203	18x12	3ft
54152	CODS181205		5ft
54153	CODS181208		8ft
54154	CODS181210		10ft
54155	CODS181215		15ft
54156	CODS201203	20x12	3ft
54157	CODS201205		5ft
54158	CODS201208		8ft
54159	CODS201210		10ft
54160	CODS201215		15ft
54161	CODS221203	22x12	3ft
54162	CODS221205		5ft
54163	CODS221208		8ft
54164	CODS221210		10ft
54165	CODS221215		15ft
54166	CODS241203	24x12	3ft
54167	CODS241205		5ft
54168	CODS241208		8ft
54169	CODS241210		10ft
54170	CODS241215		15ft
54171	CODS141403	14x14	3ft
54172	CODS141405		5ft
54173	CODS141408		8ft
54174	CODS141410		10ft
54175	CODS141415		15ft
54176	CODS161403	16x14	3ft
54177	CODS161405		5ft
54178	CODS161408		8ft
54179	CODS161410		10ft
54180	CODS161415		15ft
54181	CODS181403	18x14	3ft
54182	CODS181405		5ft
54183	CODS181408		8ft
54184	CODS181410		10ft
54185	CODS181415		15ft
54186	CODS201403	20x14	3ft
54187	CODS201405		5ft
54188	CODS201408		8ft
54189	CODS201410		10ft
54190	CODS201415		15ft

Item#	Code	Size	Cable Length
54191	CODS221403	22x14	3ft
54192	CODS221405		5ft
54193	CODS221408		8ft
54194	CODS221410		10ft
54195	CODS221415		15ft
54196	CODS241403	24x14	3ft
54197	CODS241405		5ft
54198	CODS241408		8ft
54199	CODS241410		10ft
54200	CODS241415		15ft
54201	CODS161603	16x16	3ft
54202	CODS161605		5ft
54203	CODS161608		8ft
54204	CODS161610		10ft
54205	CODS161615		15ft
54206	CODS181603	18x16	3ft
54207	CODS181605		5ft
54208	CODS181608		8ft
54209	CODS181610		10ft
54210	CODS181615		15ft
54211	CODS201603	20x16	3ft
54212	CODS201605		5ft
54213	CODS201608		8ft
54214	CODS201610		10ft
54215	CODS201615		15ft
54216	CODS221603	22x16	3ft
54217	CODS221605		5ft
54218	CODS221608		8ft
54219	CODS221610		10ft
54220	CODS221615		15ft
54221	CODS241603	24x16	3ft
54222	CODS241605		5ft
54223	CODS241608		8ft
54224	CODS241610		10ft
54225	CODS241615		15ft
54226	CODS181803	18x18	3ft
54227	CODS181805		5ft
54228	CODS181808		8ft
54229	CODS181810		10ft
54230	CODS181815		15ft
54231	CODS201803	20x18	3ft
54232	CODS201805		5ft
54233	CODS201808		8ft
54234	CODS201810		10ft
54235	CODS201815		15ft

Item#	Code	Size	Cable Length
54236	CODS221803	22x18	3ft
54237	CODS221805		5ft
54238	CODS221808		8ft
54239	CODS221810		10ft
54240	CODS221815		15ft
54241	CODS241803	24x18	3ft
54242	CODS241805		5ft
54243	CODS241808		8ft
54244	CODS241810		10ft
54245	CODS241815		15ft
54246	CODS202003	20x20	3ft
54247	CODS202005		5ft
54248	CODS202008		8ft
54249	CODS202010		10ft
54250	CODS202015		15ft
54251	CODS222003	22x20	3ft
54252	CODS222005		5ft
54253	CODS222008		8ft
54254	CODS222010		10ft
54255	CODS222015		15ft
54256	CODS242003	24x20	3ft
54257	CODS242005		5ft
54258	CODS242008		8ft
54259	CODS242010		10ft
54260	CODS242015		15ft
54261	CODS222203	22x22	3ft
54262	CODS222205		5ft
54263	CODS222208		8ft
54264	CODS222210		10ft
54265	CODS222215		15ft
54266	CODS242203	24x22	3ft
54267	CODS242205		5ft
54268	CODS242208		8ft
54269	CODS242210		10ft
54270	CODS242215		15ft
54271	CODS242403	24x24	3ft
54272	CODS242405		5ft
54273	CODS242408		8ft
54274	CODS242410		10ft
54275	CODS242415		15ft