



Young Regulator Co.

7100 Krick Rd • Walton Hills, OH 44146

P: 440-232-9700 • F: 440-232-8266

www.youngregulator.com

Submit 4041-CF4 – 1-10

Model 4041-CF4

Heavy Duty Commercial Quality Damper with Mounting Plate and Extended Shaft and 4 Point Cross Flow Sensor

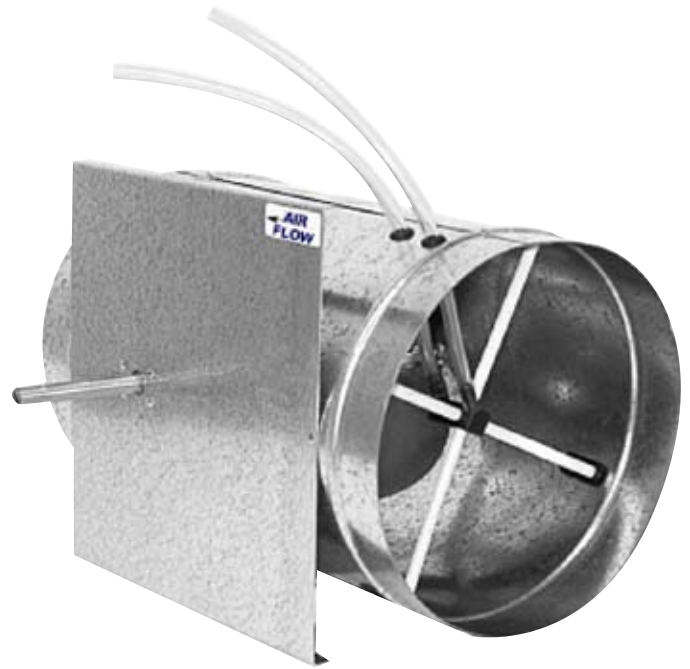
Application and Design

The Young Regulator 4041-CF4 is a round damper with low leak EPDM seals, extended shaft and mounting plate that provides efficient airflow control in conventional air handling systems for contractors who install their own actuators and controls. A 20 ga. shell and sleeve with a ½" plated steel shaft makes this ideal for medium velocity applications.

For pressure independent applications, an optional 4 point cross flow sensor is located at the inlets directs flow data to a controller (by others).

The new and reliable Young 4041-CF4 round low leakage damper provides efficient air flow control in conventional air handling systems where minimal air leakage past the closed damper is critical. It is designed for medium velocity and differential pressure applications up to 4" W.C., with a maximum cfm airflow range of 1,600 cubic feet per minute. The 4041 can be operated by a variety of manual controls or by other manufacturers' motors. The 4041-CF4 comes with a mounting plate for building management controls by others.

The Young 4041 Round Pressure Independent Variable Air Volume Damper is ideal for automation control companies that require flexibility to mount various manufacturers' controls and actuators. Order shell and plate only or with one of several different manufacturers' flow sensors that are available. Factory mounting of controls by others available.



STANDARD CONSTRUCTION	
Shell	Up to 20 ga. Galvanized Steel
Blade	20 ga. Galvanized Steel
Shaft	½" Plated Steel, Extended 3"
Bushing	Oil Impregnated Bronze
Mounting Plate	11" x 11" Custom Sizes Available
Low Leak Seals	EPDM

SIZE INFORMATION	
Diameter	6" - 16" Less 1/8"
Shell Length - See chart on back	15" - 18" Rolled stiffening beads for added strength
OPTIONS	
Elliptical Blade	Many Motor Options
4 Point Cross Flow Sensor	

QUANTITY	DIAMETER	NOTES

PROJECT	LOCATION
CONTRACTOR	DESIGN SPECIFIER



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SIZE	AIR FLOW CFM	MINIMUM SUPPLY PRESSURE	1.0" PRESSURE DROP					NC.	2.0" PRESSURE DROP					NC.	3.0" PRESSURE DROP					NC.
			LW-CENTER FREQ.						LW-CENTER FREQ.						LW-CENTER FREQ.					
			125	250	500	1000	2000		125	250	500	1000	2000		125	250	500	1000	2000	
6	150	0.03	49	50	47	43	48	18	50	52	50	50	52	22	53	53	52	54	54	23
	350	0.13	55	57	54	52	55	28	59	59	61	59	62	32	61	61	66	62	66	35
	550	0.28	57	61	57	57	59	36	60	64	64	62	64	38	62	66	68	68	67	41
8	250	0.02	53	51	51	48	57	27	55	54	55	56	62	32	56	56	57	61	66	34
	600	0.11	58	57	57	54	59	31	62	63	65	61	65	38	64	65	69	65	68	42
	1000	0.29	61	61	62	57	61	33	65	67	68	65	68	42	68	70	72	69	71	46
10	400	0.02	52	55	55	52	55	30	57	60	61	57	62	38	59	63	65	60	66	40
	900	0.08	60	57	58	56	58	34	65	64	65	63	64	42	69	68	69	67	68	46
	1500	0.31	54	59	61	58	59	37	71	69	68	66	66	44	75	70	70	70	69	49
12	550	0.02	53	52	55	50	52	33	57	58	60	61	61	34	60	62	63	65	64	35
	1400	0.11	62	58	62	57	57	40	68	65	65	64	63	43	71	68	67	67	67	46
	2200	0.29	66	62	66	61	59	43	72	69	70	68	66	48	75	73	72	72	70	51
14	700	0.02	57	55	51	55	57	33	61	58	55	59	60	38	63	60	57	62	62	43
	1800	0.08	63	61	59	57	61	39	68	66	65	64	67	45	71	69	68	68	72	50
	2900	0.27	67	65	64	59	63	42	73	71	69	67	69	48	76	74	72	72	74	53
16	850	0.03	56	55	52	54	59	33	62	59	56	60	61	39	66	62	59	63	63	49
	2300	0.09	64	61	60	58	61	39	71	67	66	65	68	46	74	69	68	69	70	53
	3800	0.29	68	65	64	62	63	41	73	72	70	68	73	49	79	75	74	74	75	57

Part No.	Diameter/ length in Inches	CFM	Minimum Static Pressure	K Factor
4041-06	5 7/8" 15" long	200	0.04	2.79
		300	0.09	
		400	0.16	
4041-08	7 7/8" 15" long	400	0.05	2.91
		600	0.11	
		800	0.20	
4041-10	9 7/8" 15" long	750	0.07	2.62
		950	0.12	
		1350	0.23	
4041-12	11 7/8" 15" long	900	0.05	3.00
		1300	0.10	
		2100	0.27	
4041-14	13 7/8" 18" long	1000	0.05	2.94
		1600	0.10	
		2500	0.27	
4041-16	15 7/8" 18" long	1500	0.05	2.87
		2300	0.10	
		3500	0.27	