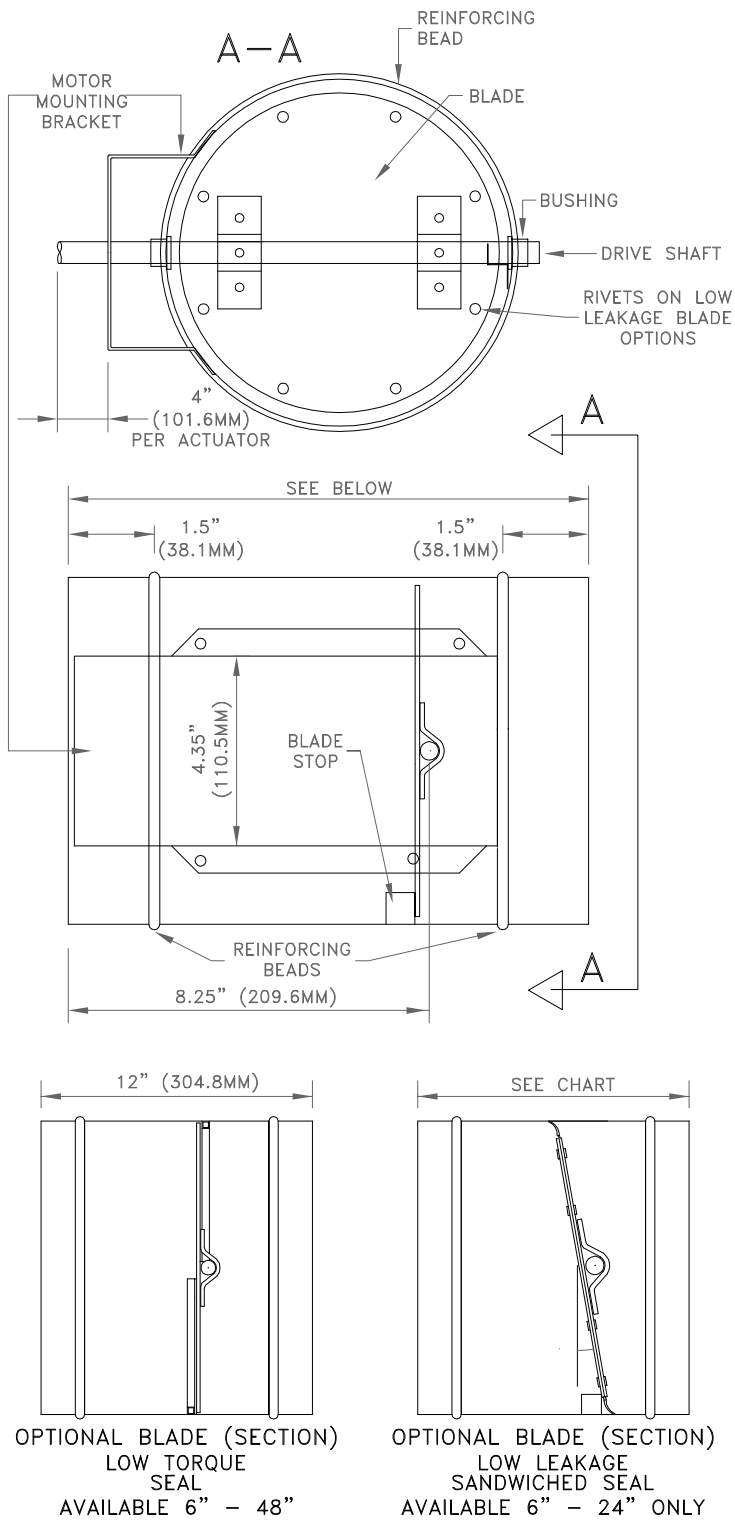




COMMERCIAL ROUND CONTROL DAMPER PBS-R



STANDARD SPECIFICATIONS

- CONST. - GALVANIZED STEEL PIPE FRAME, SPOT WELDED JOINT
- FRAME - ROLLED GALVANIZED STEEL, BEADED, SEE SIZE/MATERIAL CHART
- BLADE - GALVANIZED STEEL SHEET, OR AS PER OPTIONS BELOW, SEE SIZE/MATERIAL CHART
- SEALS - NONE, OR AS PER OPTIONS BELOW
- DRIVE SHAFT - C.R. PLATED STEEL, SEE SIZE/MATERIAL CHART
4" (101.6MM) FOR ONE ACTUATOR
8" (203.2MM) FOR TWO ACTUATORS
- BEARINGS - PRESSED IN OILITE BRONZE BUSHINGS
- MOTOR MT. - 18 GA. GALVANIZED STEEL BRACKET
- FINISH - MILL GALVANIZED
- SIZE - MINIMUM 6" (152.4MM) DIA.
MAXIMUM 48" (1219.2MM) DIA.
SEE NOTES BELOW ON SECTIONS

OPTIONS

- CONST. ALUMINUM (PBA-R)
- STAINLESS STEEL (PBSS-R)
- BEARINGS NYLON BUSHINGS
- S.S. BUSHINGS
- SEALS LOW TORQUE SEAL - CLOSED CELL NEOPRENE (-50° F. TO +250° F.)
- LOW LEAKAGE SANDWICH TYPE SEAL NEOPRENE SHEET (-50° F. TO +250° F.)
- SILICONE (-60° F. TO +450° F.)
- CONTROLS MATERIAL HAND QUADRANT, MOTORIZED ACTUATORS
304 & 316 STAINLESS, SPECIAL ORDER

TECHNICAL NOTES

- MAX. REC. VELOCITY - SEE MAXIMUM SYSTEM CHART
- MAX. REC. SYSTEM PRESSURE - SEE MAXIMUM SYSTEM CHART
- LEAKAGE - SEE AIR LEAKAGE CHART
- TORQUE - SEE TORQUE/FREE AREA CHART

DAMPER IS MANUFACTURED 1/8" (3.18MM) SMALLER THAN ORDERED SIZE UNLESS EXACT DIMENSIONS ARE STATED.

* FOR MORE INFORMATION, CONTACT OUR FACTORY *

NOTES

APPROVAL

DATE:
PROJECT:
ENGINEER:
CUSTOMER:
DISTRIBUTOR:

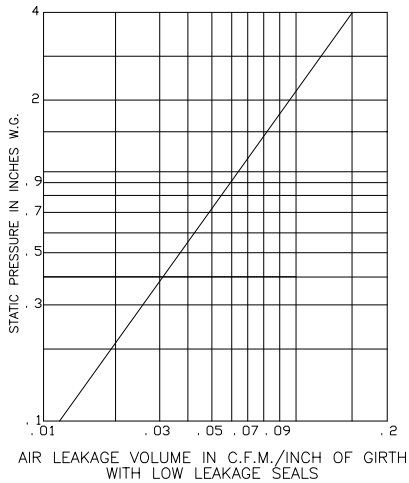
PBS-R

MAXIMUM SYSTEM CHART

DAMPER O.D. DIAMETER	MAXIMUM SYSTEM PRESSURE	MAXIMUM SYSTEM VELOCITY
6"	10" W.G.	2000 F.P.M.
12"	8" W.G.	2000 F.P.M.
24"	6" W.G.	2000 F.P.M.



**COMMERCIAL
ROUND CONTROL DAMPER
PBS-R**



AIR LEAKAGE CHART
STANDARD AIR - 0.075 LBS

SIZE/MATERIAL CHART FOR LOW TORQUE & LOW LEAKAGE TO 24"

NOMINAL OUTSIDE DIAMETER		LOW TORQUE PIPE FRAME LENGTH/GA.	LOW LEAKAGE PIPE FRAME LENGTH/GA.	BLADE THICKNESS (OR EQUAL)	SHAFT & BEARING DIAMETER
ABOVE	THROUGH				
6.00"	8.00"	12" X 24 GA.	12" X 24 GA.	24 GA.	0.50"
8.75"	12.00"	12" X 22 GA.	12" X 22 GA.	22 GA.	0.50"
12.75"	14.00"	12" X 20 GA.	16" X 20 GA.	22 GA.	0.50"
15.00"	24.00"	12" X 20 GA.	16" X 20 GA.	20 GA.	0.75"

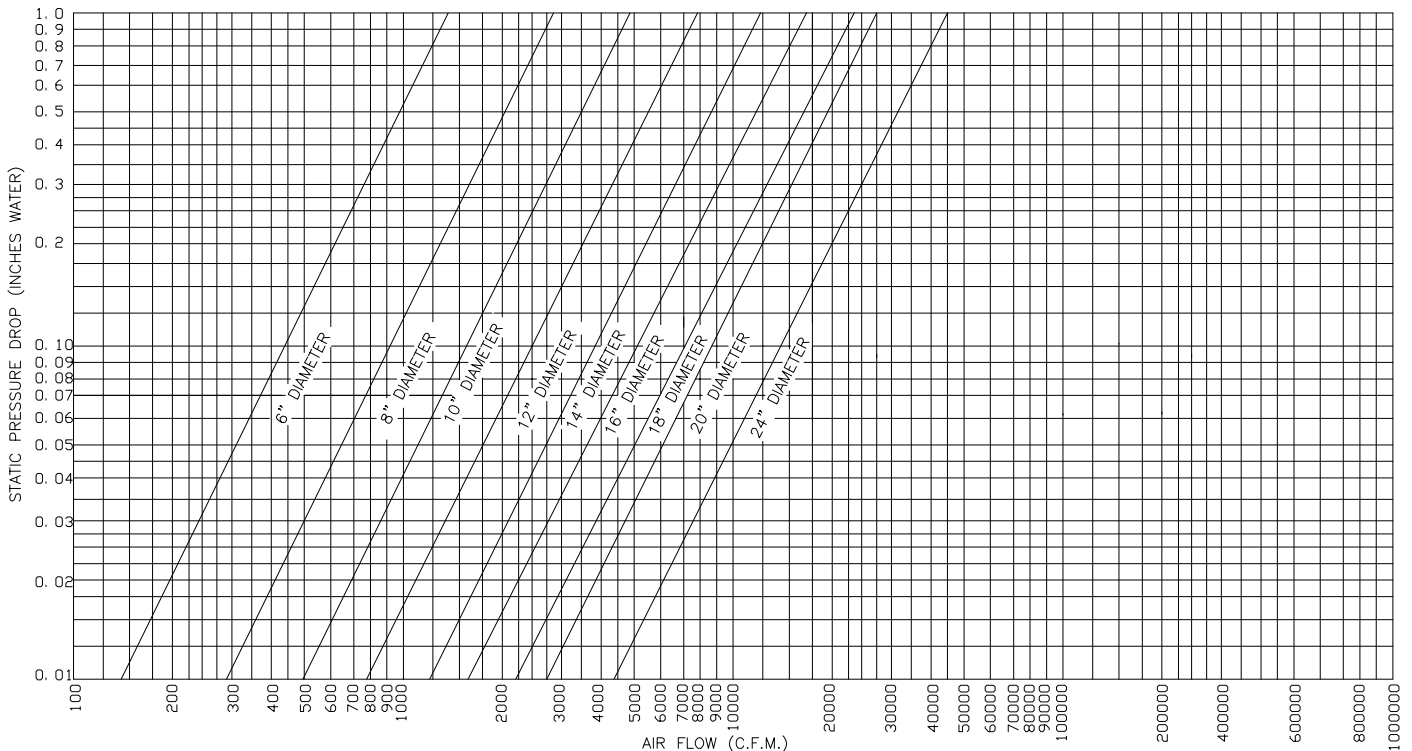
LOW TORQUE ONLY 25" - 48"

NOMINAL OUTSIDE DIAMETER	LOW TORQUE PIPE FRAME LENGTH/GA.	LOW LEAKAGE PIPE FRAME LENGTH/GA.	BLADE THICKNESS (OR EQUAL)	SHAFT & BEARING DIAMETER
25.00"	30.00"	12" X 18 GA.	18 GA.	0.75"
31.00"	36.00"	12" X 16 GA.	N/A	0.75"
37.00"	42.00"	12" X 16 GA.	12 GA.	0.75"
43.00"	48.00"	12" X 16 GA.	10 GA.	1.00"

TORQUE/FREE AREA CHART

MIN. IN/LBS TORQUE REQUIRED TO OPERATE PBS-R DAMPERS WITH LOW LEAKAGE SEALS											
	DIA. SIZE	6"	8"	10"	12"	14"	16"	18"	20"	24"	OVER
	TORQUE	40	50	60	70	80	90	100	110	130	N/A
FREE AREA (SQUARE FEET)	LOW TORQUE	0.12	0.24	0.41	0.62	0.88	1.15	1.49	1.87	2.76	N/A
	LOW LEAKAGE	0.18	0.32	0.51	0.74	1.02	1.31	1.67	2.08	3.02	N/A

- TORQUE FIGURES ABOVE APPLY TO APPLICATIONS UNDER 2" W.G. OR 1000 F.P.M.
- FOR APPLICATIONS BETWEEN 2" AND 3" W.G. OR 1000 AND 2000 F.P.M. MULTIPLY TORQUE VALUE BY 1.5
- FOR APPLICATIONS ABOVE 3" W.G. OR 2000 F.P.M. CONTACT FACTORY



AIR PERFORMANCE GRAPH

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