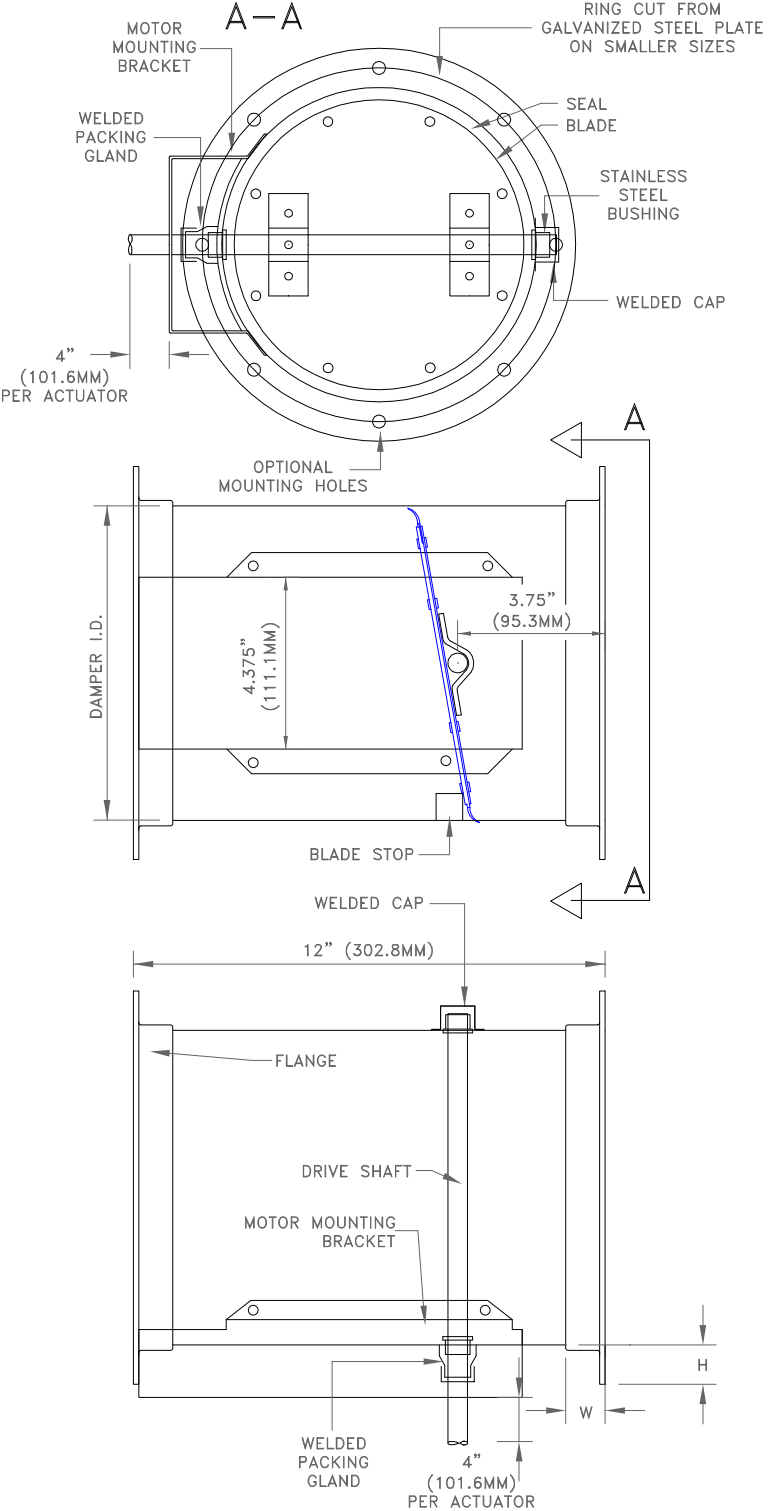




**LOW LEAKAGE ROUND
FLANGED DAMPER
PBS-FR-FH
(FOR FUME HOODS)**



STANDARD SPECIFICATIONS

- CONST. - GALVANIZED STEEL PIPE FRAME, SPOT WELDED JOINT, C/W FLANGES
- FRAME - ROLLED GALVANIZED STEEL, SEE SIZE/MATERIAL CHART
- FLANGES - ROLLED GALVANIZED STEEL ANGLE FLANGES, STITCH WELDED, SEE SIZE/MATERIAL CHART
- BLADE - 2 - GALVANIZED STEEL SHEETS SEE SIZE/MATERIAL CHART
- SEALS - NEOPRENE SEAL SANDWICHED BETWEEN, SEE SIZE/MATERIAL CHART
- DRIVE SHAFT - .5" (12.7MM) DIA. C.D. PLATED STEEL, C/W PACKING GLAND AND CAP
- 4" (101.6MM) FOR ONE ACTUATOR
- BEARINGS - .5" (12.7MM) STAINLESS STEEL BUSHINGS
- MOTOR MT. - 18 GA. GALVANIZED STEEL BRACKET
- FINISH - MILL GALVANIZED
- SIZE - MINIMUM 6" (152.4MM) DIA. MAXIMUM 24" (609.6MM) DIA.

OPTIONS

- CONST. STAINLESS STEEL (PBSS-FR-FH)
- ALUMINUM (PBA-FR-FH)
- FLANGE HOLES PLEASE SPECIFY SIZE OF HOLES, NUMBER OF HOLES AND DIAMETER OF CENTER LINES
- BEARINGS NYLON BUSHINGS
- OILITE BRONZE BUSHINGS
- SEALS SILICONE (-60° F. TO +450° F.)
- CONTROL HAND QUADRANT, MOTORIZED ACTUATORS

TECHNICAL NOTES

- MAX. REC. VELOCITY - SEE MAXIMUM SYSTEM CHART
- LEAKAGE - SEE AIR LEAKAGE CHART
- MAXIMUM TEMPREATURE - 250° F WITH NEOPRENE SEALS
- TORQUE - SEE TORQUE/FREE AREA CHART

THIS DAMPER IS MANUFACTURED TO INSIDE DIMENSIONS

** FOR MORE INFORMATION, CONTACT OUR FACTORY **

NOTES

APPROVAL

DATE:
PROJECT:
ENGINEER:
CUSTOMER:
DISTRIBUTOR:

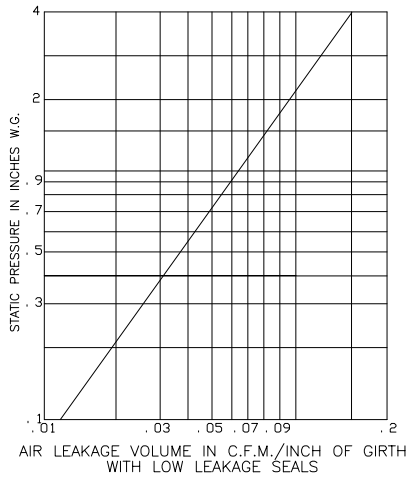
PBS-FR-FH

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.



**LOW LEAKAGE ROUND FLANGED DAMPER
PBS-FR-FH
(FOR FUME HOODS)**



AIR LEAKAGE CHART
STANDARD AIR - 0.075 LBS

SIZE/MATERIAL CHART

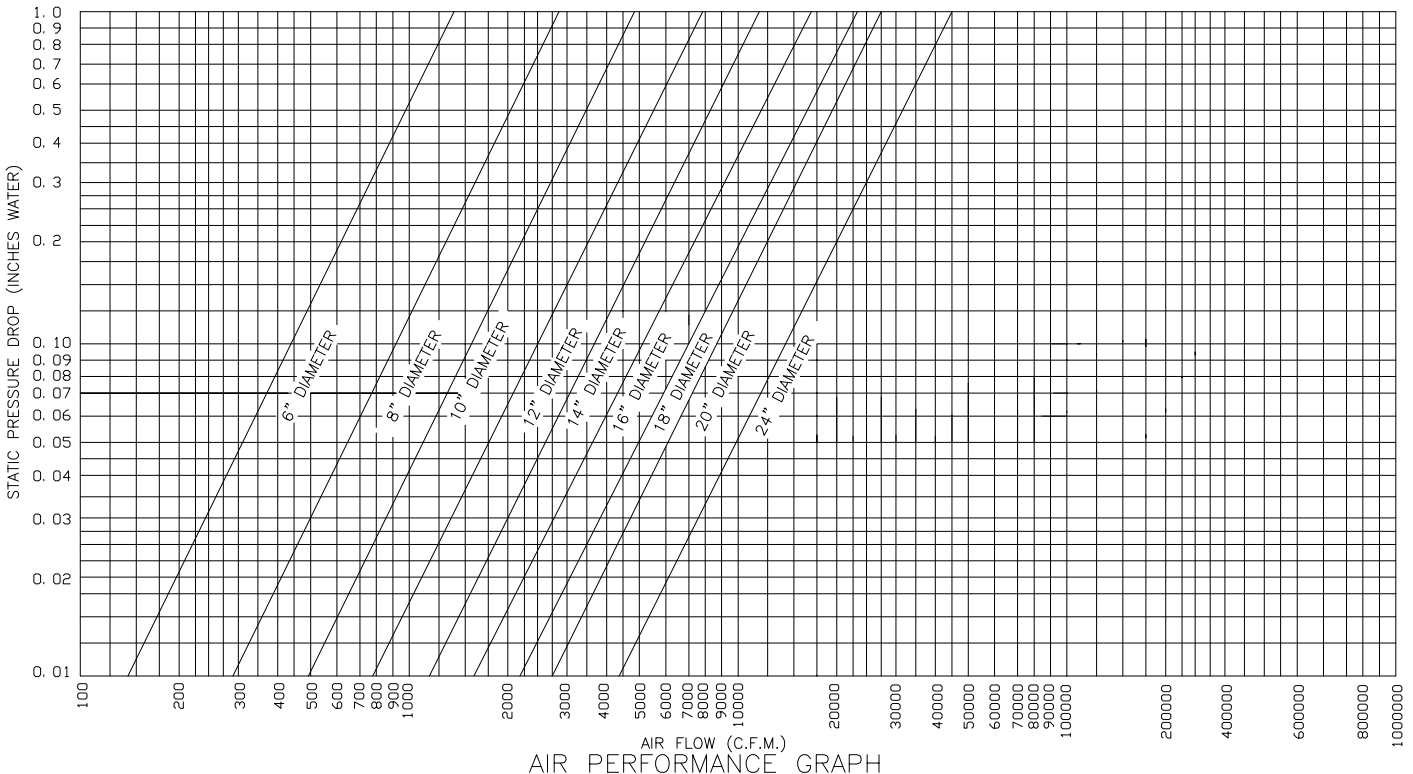
INSIDE DIAMETER		PIPE FRAME		BLADE THICKNESS (OR EQUAL)	SHAFT & BEARING DIAMETER
ABOVE	THROUGH	LENGTH/GA.	FLANGES		
6.00"	8.00"	12" X 24 GA.	1.5" X 0.125"	24 GA.	0.50"
8.75"	12.00"	12" X 22 GA.	1.5" X 0.125"	22 GA.	0.50"
12.75"	14.00"	12" X 22 GA.	1.5" X 0.125"	22 GA.	0.50"
15.00"	24.00"	12" X 20 GA.	1.5" X 0.125"	20 GA.	0.75"

TORQUE/FREE AREA CHART

MIN. IN/LBS TORQUE REQUIRED TO OPERATE PBS-FR-FH DAMPERS WITH LOW LEAKAGE SEALS

	DIA. SIZE	6"	8"	10"	12"	14"	16"	18"	20"	24"
	TORQUE	40	50	60	70	80	90	100	110	130
FREE AREA (SQUARE FEET)	LOW TORQUE	0.12	0.24	0.41	0.62	0.88	1.15	1.49	1.87	2.76
	LOW LEAKAGE	0.18	0.32	0.51	0.74	1.02	1.31	1.67	2.08	3.02

- 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 OUR FACTORY



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