

KEYSTONE

BAG-IN-BAG-OUT GASKET
CONSTRUCTION & OPTIONS

STANDARD CONSTRUCTION

- UNIT SHALL BE MANUFACTURED FROM 11 AND 14 GAUGE MATERIAL.
- ALL HARDWARE WILL BE 300 SERIES S/S EXCEPT THE ALUMINUM STAR KNOBS.
- ALL UNITS TESTED BY ASME N510, 1989, 1995 REAFFIRMED TO ±15" W.G.
- ALL UNITS ARE DESIGNED FOR 24"X24"X11-1/2" OR 24"X12"X11-1/2" ACTUAL SIZED HEPA FILTERS AND 24"X24"X(2, 4, OR 6)" OR 24"X12"X(2, 4, OR 6)" NOMINAL SIZED PREFILTERS.
- 40H HOUSINGS ARE TOO TALL TO SHIP REGULAR LTL FREIGHT.

MATERIAL

- ☐ T-304L STAINLESS
- ☐ T-316L STAINLESS
- ☐ ALUMINIZED STEEL

PREFILTER SIZE

- ☐ NO PREFILTER
- ☐ 2" (NOM)
- ☐ 4" (NOM)
- ☐ 6" (NOM)

DOORS

- ☐ RIGHT HAND (STANDARD)
- ☐ LEFT HAND
- ☐ DOORS ON BOTH SIDES

FLANGES

- ☐ PLAIN (STANDARD)
- ☐ DRILLED (REF. CSD-019)
 - ☐ UPSTREAM
 - ☐ DOWNSTREAM

TRANSITIONS

- ☐ UPSTREAM
- ☐ DOWNSTREAM
- ☐ SQUARE COLLAR: H/W ____ X ____
- ☐ ROUND COLLAR: ID ____

STATIC PRESSURE PORTS

- ☐ REQUIRED

INSULATION

- ☐ 2" THICK FOIL BACKED DOUBLE WALL (INCLUDES WEATHER COVER)
- ☐ WEATHER COVER ONLY

LIFTING LUGS

- ☐ 2 ☐ 4

AIR FLOW DIRECTION

- ☐ HORIZONAL (STANDARD)
- ☐ UPWARD VERITCAL
- ☐ DOWNWARD VERTICAL

TEST PORT

- ☐ UPSTREAM OF PREFILTER
- ☐ BETWEEN PRE AND FINAL FILTER
- ☐ DOWNSTREAM OF FINAL FILTER
 - ☐ PORTS IN TOP PAN ☐ PORTS IN BACK PAN

HIGH TEMP GASKET

- ☐ YES (50-400 F)



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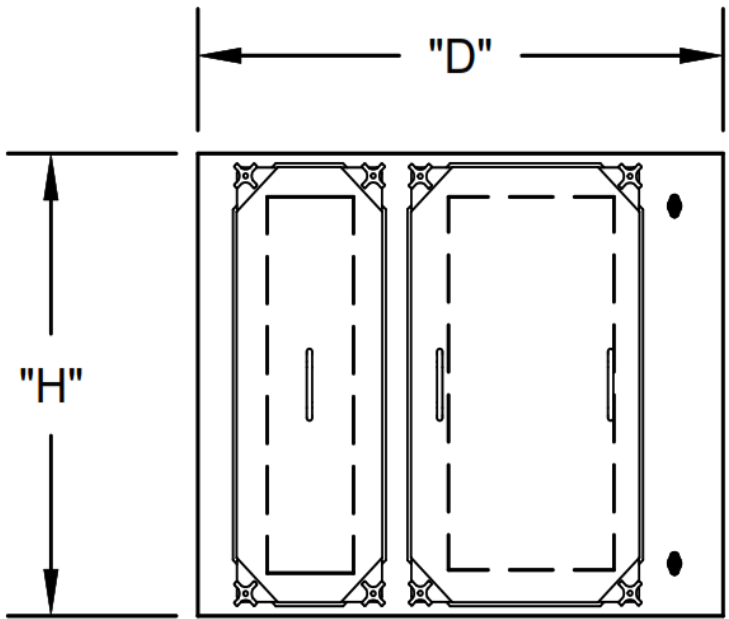
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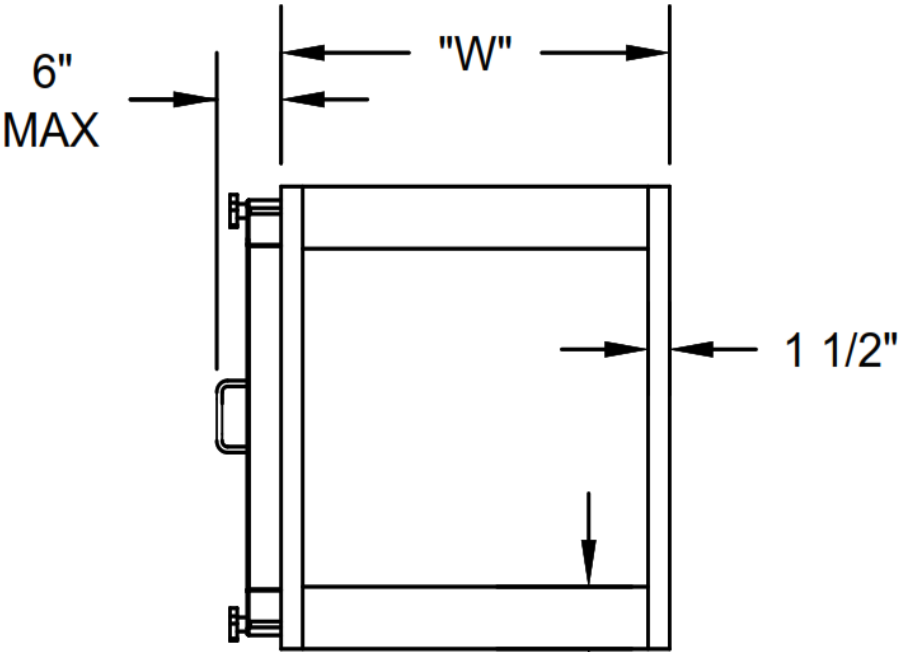
KEYSTONE
BAG-IN-BAG-OUT GASKET
SIZE CONFIGURATOR

ORDER DETAILS				
ITEM#	HEIGHT	WIDTH	DEPTH	QTY
1				
2				
3				
4				
5				
EX.				

AVAILABLE DEPTHS	DEPTH
HEPA ONLY (SINGLE DOOR	20"
2" PREFILTER AND HEPA	27 3/4"
4" PREFILTER AND HEPA	29 3/4"
6" PREFILTER AND HEPA	31 3/4"



ACCESS VIEW
(6" UNIT SHOWN)




4" UPSTREAM FLANGES
AND 2-3/4" DOWNSTREAM FLANGES

FLANGE VIEW

H HEIGHT \ WIDTH W		15"	27"	39"	51"	63"	75"	90"	102"	114"	126"	138"	150"
		05W	10W	15W	20W	25W	30W	35W	40W	45W	50W	55W	60W
14 7/8"	05H	<div>SIZE CODE NOTE: TO DETERMINE SIZE CODE OF DESIRED HOUSING, 05 SIZED UNITS REPRESENT A 12" ACTUAL SIZE HEPA FILTER AND 10 SIZED UNITS REPRESENT A 24" ACTUAL SIZED HEPA FILTER. IE: A 10HX15W UNIT WOULD ACCOMMODATE (1) 24"X24"X11-1/2" HEPA FILTER AND (1) 24"X12"X11-1/2" HEPA FILTER PLACED SIDE BY SIDE.</div>											
26 7/8"	10H												
39"	15H												
51"	20H												
63 1/8"	25H												
75 1/8"	30H												
87 1/4"	35H												
99 1/4"	40H												

DASH	DESCRIPTION



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BAG-IN-BAG-OUT GASKET
BIBO BAG - CONSTRUCTIONS & OPTIONS

STANDARD CONSTRUCTION
- BAGS SHALL BE MANUFACTURED FROM A MINIMUM 8-MIL PVC AND HAVE A TAFETA TEXTURED FINISH TO PREVENT BAG FROM STICKING TOGETHER. BAGS ARE DESIGNED FOR AN OPERATING TEMPERATURE RANGE OF 0-130° F BUT, HIGH TEMPERATURE BAGS CAN BE CUSTOM MADE UPON REQUEST.

- AN ELASTIC SHOCK CORD WITH BRASS BAND AND BAG SIZE INFORMATION IS HEMMED INTO THE FRONT OF EACH BAG TO PROVIDE A SNUG FIT AROUND THE BAGGING RING.

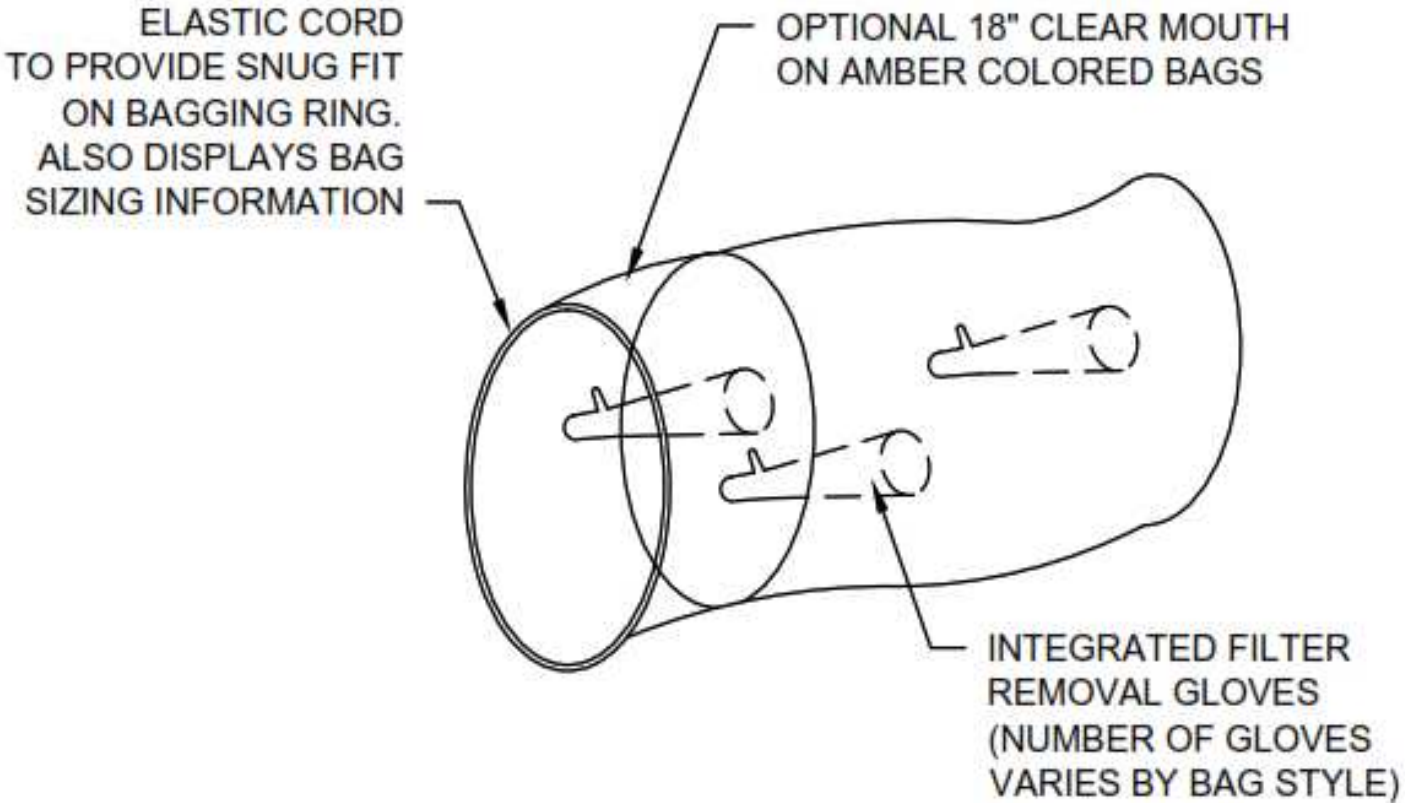
*BANDING KIT CONTAINS THE TOOLS AND EQUIPMENT NECESSARY TO EFFECTIVLY CHANGE THE FILTERS ON A BAG-IN/BAG-OUT SYSTEM. THE KIT INCLUDES: 1 STORAGE BAG FOR ALL BANDING EQUIPMENT, 1 RACHET CUTTER, 1 RATCHET TOOL SET, 15 PLASTIC TIES AND 15 STAINLESS STEEL 18" LONG METAL BANDS.

** BAG KIT CONTAINS: ONE BAG, ONE CINCHING STRAP AND A SECURITY STRAP.

- OPTIONS**
- ☐ BAG KIT**
 - ☐ BAG ONLY
- BAG COLOR**
- ☐ TRANSLUCENT AMBER
 - ☐ TRANSLUCENT AMBER WITH 18" CLEAR BAND AT MOUTH
 - ☐ CLEAR
- TEMPERATURE RATING**
- ☐ STANDARD
 - ☐ HIGH TEMPERATURE
- CERTIFICATE OF CONFORMANCE**
- ☐ REQUIRED

INCLUDE OPTIONAL BANDING KIT

- ☐ YES *



ORDER DETAILS			
ITEM #	CIRCUMFERENCE	LENGTH	QTY
1			
2			
3			
4			
5			

CIRCUMFERENCE	LENGTH	# OF GLOVES
36	54	3
42	54	3
42	72	3
44	54	3
48	54	3
54	54	2
60	36	3
60	36	3
60	72	3
60	96	3
61	78	3
64	72	3
67	54	3
68	72	3
70	72	3
70	96	3
70	108	3
78	78	3
80	96	3
80	108	3
84	16	2
84	36	2

CIRCUMFERENCE	LENGTH	# OF GLOVES
85	96	3
86	48	3
86	96	3
90	96	3
90	108	3
104	96	3
104	108	3
108	96	3
73	96	3
93	96	3
96	96	3
98	108	3
116	96	3
116	108	3
122	96	3
56	72	3
63	72	3
72	72	3
78	72	3
94	96	3
102	96	3

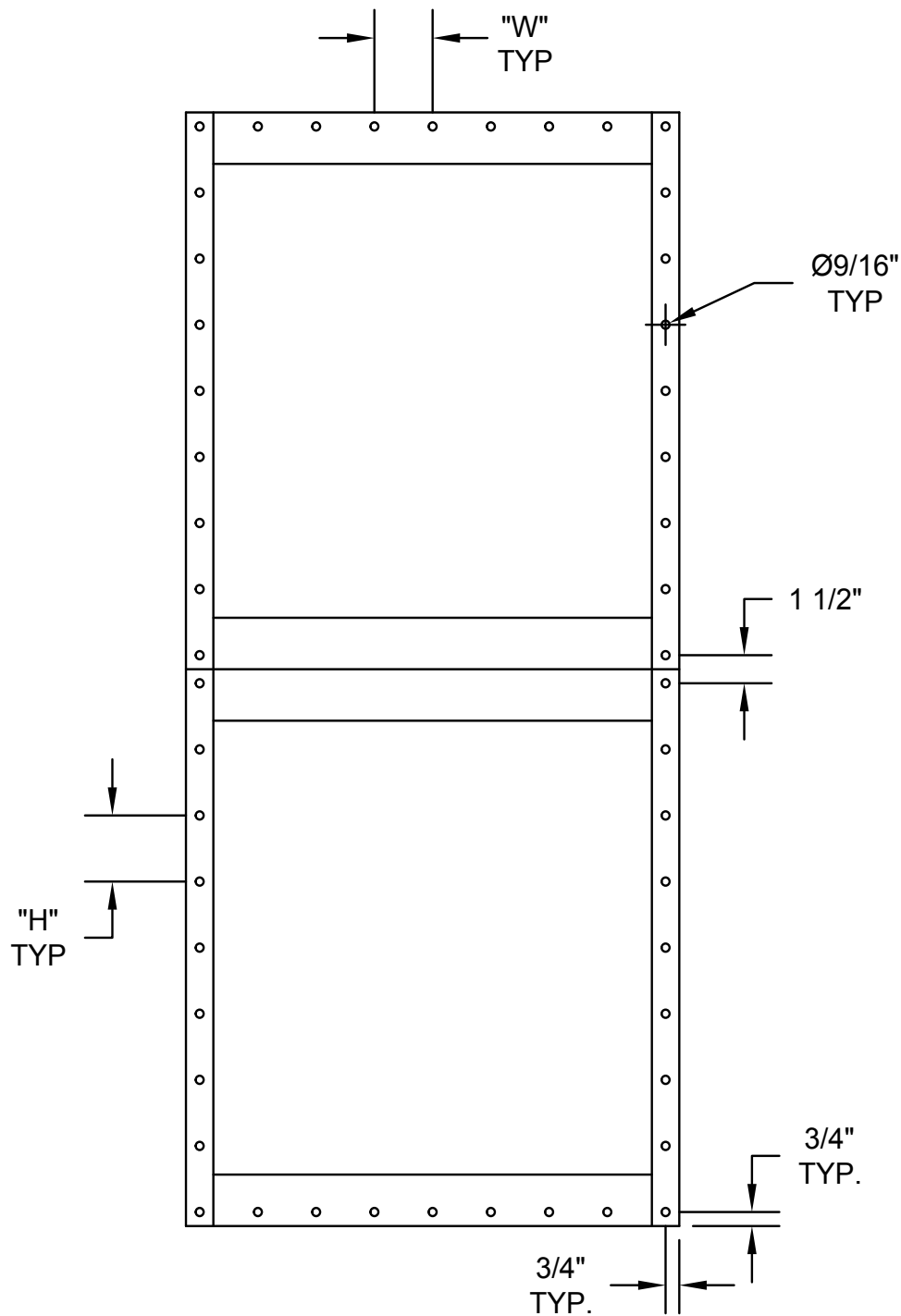
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BIBO DRILLED FLANGE DETAIL



BOLT HOLE PATTERN		
HEIGHT OR WIDTH	BOLT SPACING "H"	BOLT SPACING "W"
5	3.25"	3.375"
10	3.53125"	3.1875"
*15	3.53125" / 3.25"	3.75"
*20	3.53125"	3.8077"
*25	3.53125" / 3.25"	3.8437"
*30	3.53125"	3.8684"
*THESE UNITS ARE COMPRISED OF 1 HIGH AND 1/2 HIGH UNITS STACKED TO MEET THE APPROPRIATE CONFIGURATION. 1/2 HIGH UNITS SHALL ALWAYS BE STACKED ON TOP OF THE LARGER UNITS. PLEASE TAKE NOTE OF HOLE SPACING AT THE SEAM BETWEEN UNITS.		

- NOTES**
- OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL AS PER OSP-0302-10
 - AVAILABLE ON SUPPLY MODELS ONLY, WITHOUT ROOM-SIDE CONTROLS
 - 12 GA. GALVANIZED STEEL HANGER BRACKET
 - MASON SCB=2 BRACKET REQUIRED (QTY 4) SECURED AS PER OSP-0302-10 REPORT
 - LATERAL BRACING REQUIRED AS PER OSP-0302-10 REPORT

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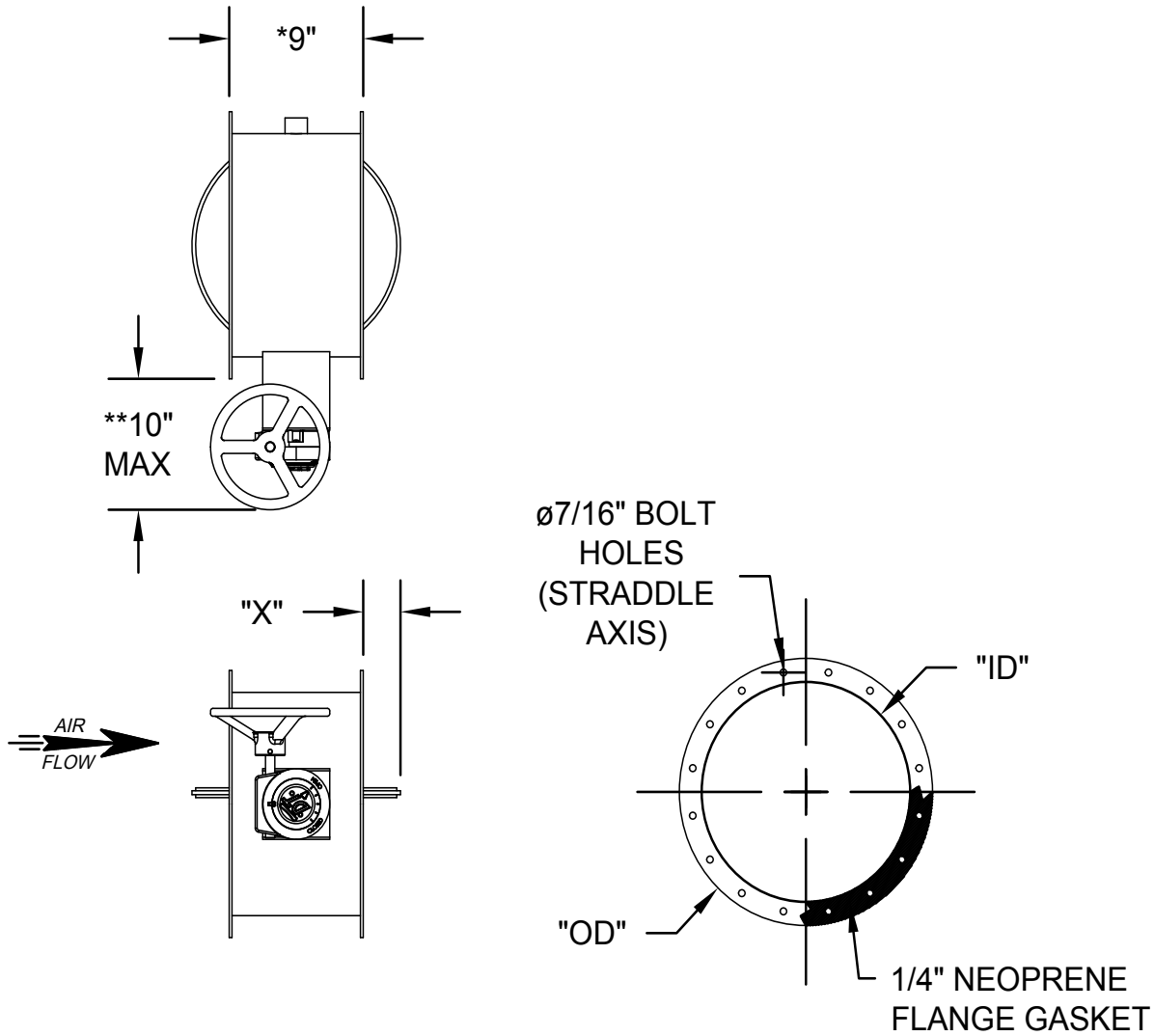
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BAG-IN-BAG-OUT GASKET
BT ISOLATION DAMPER

INSIDE DIAMETER (ID)	OUTSIDE DIAMTER (OD)	BOLT HOLE CENTER	BLADE EXTENSION (X)	NUMVER OF BOLT HOLES
6	9	7-1/2	N/A	8
8	11	9-1/2	N/A	8
10	13	11-1/2	1/2	12
12	15	13-1/2	1-1/2	12
14	17	15-1/2	2-1/2	16
16	19	17-1/2	3-1/2	16
18	21	19-1/2	4-1/2	16
20	23	21-1/2	5-1/2	20
22	25	23-1/2	6-1/2	20
24	27	25-1/2	7-1/2	20
26	29	27-1/2	8-1/2	24
28	31	29-1/2	9-1/2	24
30	33	31-1/2	10-1/2	28
32	35	33-1/2	11-1/2	28
34	37	35-1/2	12-1/2	32
36	39	37-1/2	13-1/2	32

ORDER DETAILS		
ITEM #	ID	QTY
1		
2		
3		
4		
5		



LEAK TEST REQUIREMENTS

- ☐ BUBBLE TIGHT
- ☐ LOW LEAK

MATERIAL

- ☐ T-304 STAINLESS
- ☐ T-316 STAINLESS
- ☐ L GRADE

ACTUATOR REQ.

- ☐ MANUAL (AS SHOWN)
- ☐ ELECTRIC
 - ☐ 1/60/110 VAC (STANDARD)
 - ☐ 1/60/220 VAC
 - ☐ 3/60/220-440 VAC
 - ☐ 1/60/24 VAC
 - ☐ 24 VDC
- ☐ PNEUMATIC (FULL OPEN, FULL CLOSE OPERATION)
 - ☐ 70 PSI
 - ☐ 80 PSI (STANDARD)
 - ☐ 90 PSI
- ☐ SPRING RETURN
 - ☐ FAIL OPEN
 - ☐ FAIL CLOSED

OTHER OPTIONS

- ☐ BEACON INDICATOR (VISUAL DISPLAY OPEN/CLOSED)
- ☐ SOLENOID VALVE
- ☐ MANUAL OVERRIDE

STANDARD TESTING SPECS

BUBBLE TIGHT: THE DAMPER BLADE SHALL BE TESTED IN THE CLOSED POSITION AT ±10" W.G. AND SHALL BE BUBBLE TIGHT IN WHEN TESTED IN ACCORDANCE WITH ASME N510-1995 REAFFIRMED, "TESTING OF NUCLEAR AIR CLEANING SYSTEMS." THE COMPLETE DAMPER PRESSURE BOUNDARY SHALL BE LEAK TESTED AT ±10" W.G. AND HAVE A MAXIMUM ACCEPABLE LEAK RATE OF .0005 CFM PER CUBIC FOOT OF HOUSING VOLUME.

LOW LEAK: THE DAMPER BLADE SHALL BE TESTED IN THE CLOSED POSITION AT ±10" W.G. BY THE "PRESSURE DECAY METHOD" IN ACCORDANCE WITH ASME N510-1995 REAFFIRMED, "TESTING OF NUCLEAR AIR CLEANING SYSTEMS," PARAGRAPHS 6 & 7. THE COMPLETE DAMPER PRESSURE BOUNDARY SHALL BE LEAK TESTED AT ±10" W.G. AND SHALL HAVE A MAXIMUM LEAK RATE OF .0005 CFM PER CUBIC FOOT OF HOUSING VOLUME.

OTHER LEAK RATE OPTIONS AND TESTING PARAMETERS ARE AVAILABLE UPON REQUEST, SPEAK WITH THE MAUFACTURER'S SALES REPRESENTATIVE FOR DETAILS.

* DEPTH IS FROM FLANGE TO FLANGE AND DOES NOT INCLUDE THE 1/4" NEOPRENE FLANGE GASKET.

**SIZE VALID FOR STANDARD MANUAL ACTUATORS ONLY. CONTACT MANUFACTURER FOR SIZES OF OTHER ACTUATORS.



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