

SHAN-ROD

fabricated butterfly valves and dampers

BULLETIN 2600

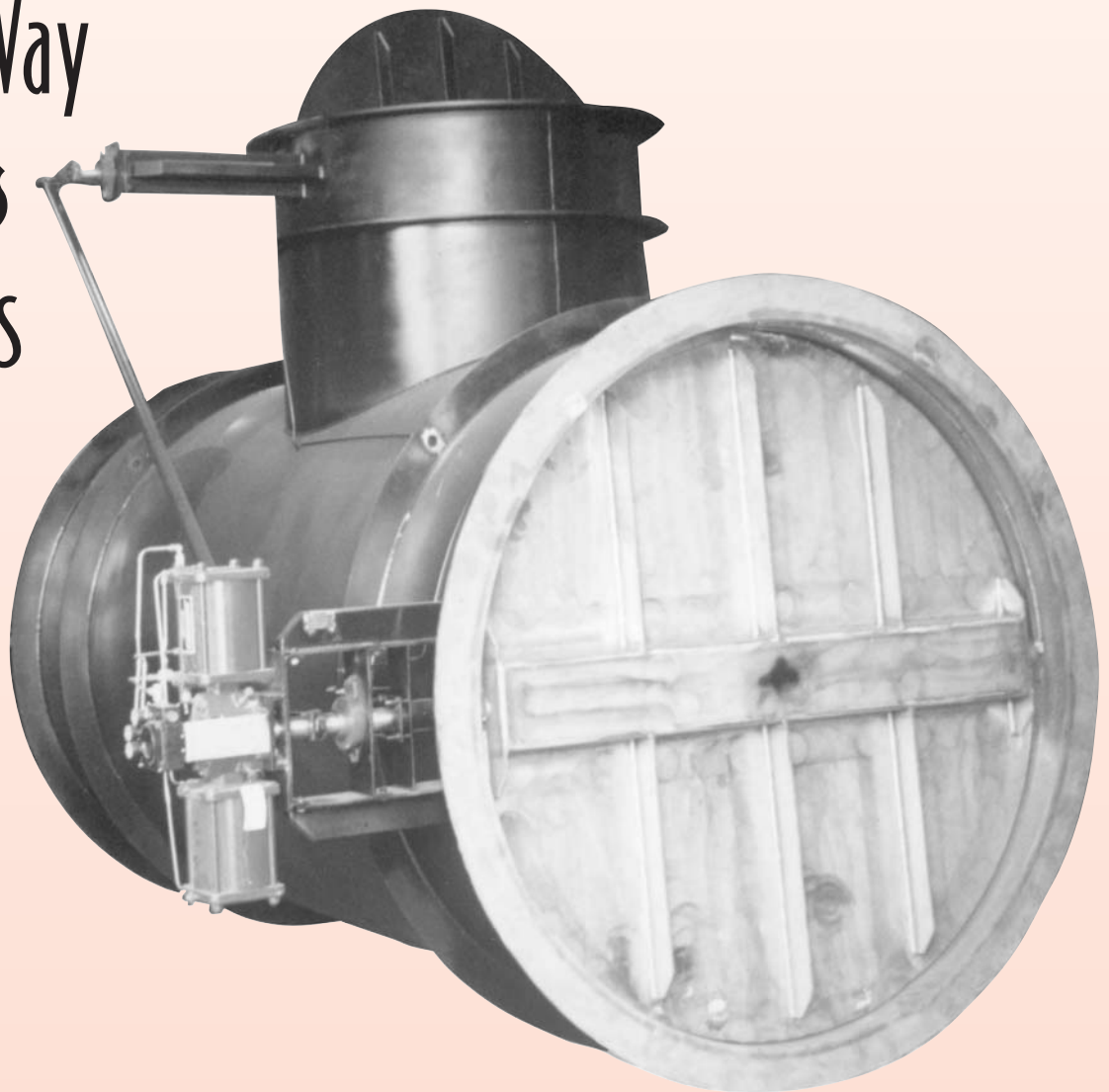
Shan-Rod Fabricated

Var-£-Tee

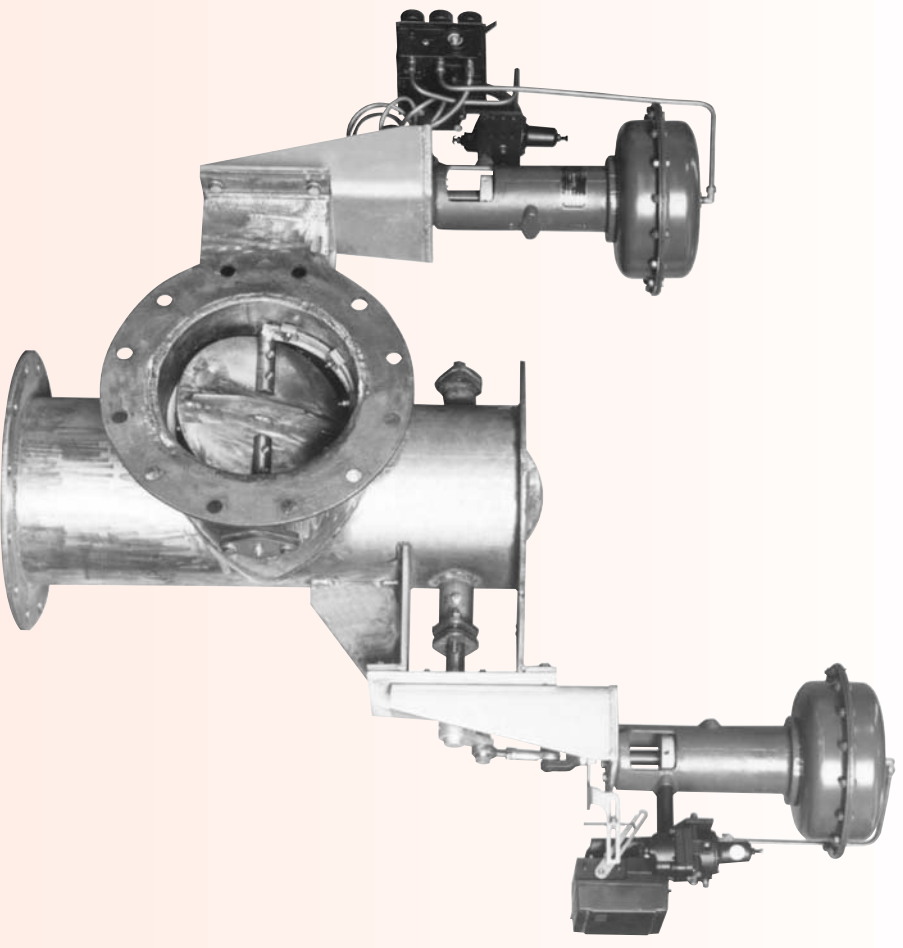
Integral 3-Way

Dampers

2600 Series



Shan-Rod heavy duty Var-E-Tee™ Integral 3-Way Dampers



THE SHAN-ROD DAMPER

Shan-Rod Var-E-Tee™ dampers are designed to give long, trouble free service in all low pressure service applications. The versatility of the fabricated Tee and Damper allows Shan-Rod to design to your specifications as required by your systems.

DESCRIPTION

The basic damper consists of an integral fabricated carbon steel “tee” and damper body, fabricated carbon steel discs, plate carbon steel flanges, 304 stainless stub shafts, stainless taper pins, carbon graphite inboard bushings, graphite packing, 304 stainless packing follower, graphitar or stainless lantern gland, lubricated stuffing boxes with alemite purge fittings, conventional swing-thru seat design and tandem linkage between power and slave damper.

CORROSIVE AND HIGH TEMPERATURE SERVICES

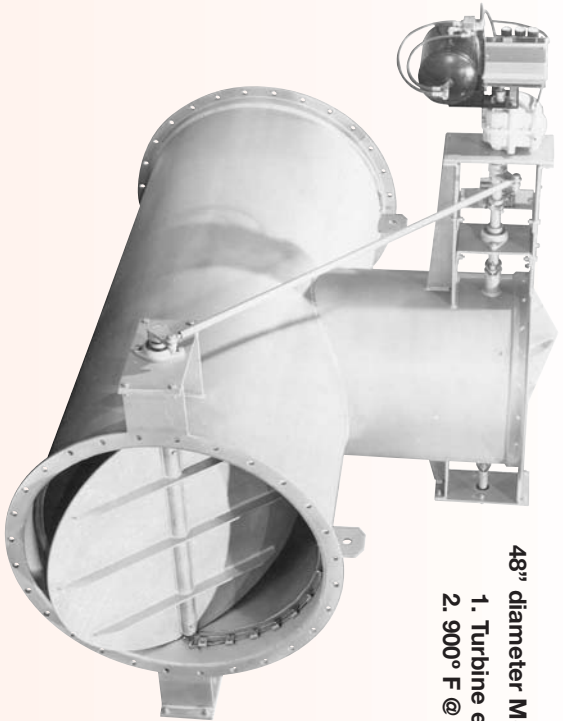
Shan-Rod dampers are in service in many corrosive and high temperature applications such as sulphur oxides, flue gases, thaelic anhydride, blast furnace gases, sinter fumes, cupola gases, coke oven gases, humid acetone gases, toluene vapors, gas turbine exhausts, brackish water, salt water, catalyst fines, and temperatures to 2100° F. Shan-Rod engineers select the most compatible materials for services as described above to supply the industry with a damper that is maintenance free for many years.

CONSTRUCTION AND MATERIALS

Construction	Standard	Optional
Flanges Body, Disc	Carbon steel	Corten, Aluminum 304, 316, 317, 309, 310 & RA 330 SS, Carpenter 20, Titanium, Tantalum, Refractory Lined Body.
Shaft	304 SS	Alum., Al.-Br., 300 Series SS, 309, 310, RA-330 SS, Carp. 20, Titanium & Tantalum.
Bushings	Carbon (3000° F)	Gr. Br., 300 Series SS, Stellite, TFE Glass filled TFE.
Bearings (Outboard ball)	72" & above Std. with seat	Ball & roller - all sizes
Packing Follower	304	Same alloys as body.
Lantern Gland	Carbon	Same alloys as body.
Seat	Swing-thru	See std. seat designs

OPERATING CONDITIONS

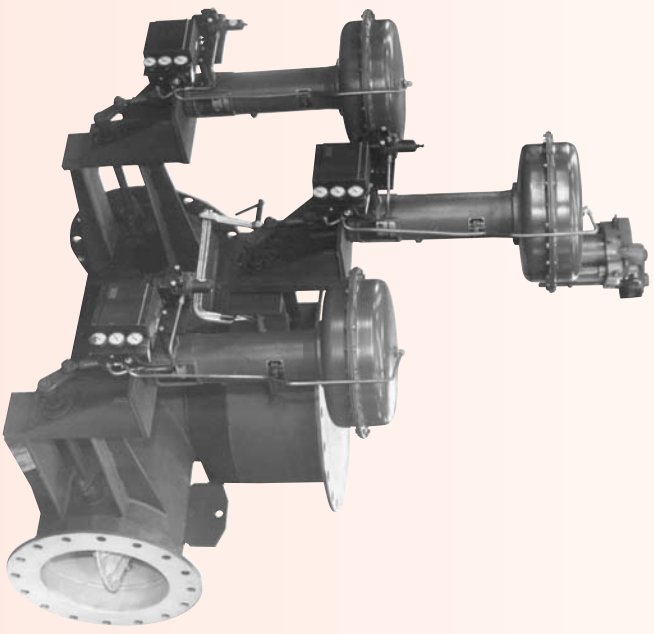
	Std.	Optional
Temp. °F.	750	2100
Max. Static Press. (psig)	5	150
Shut-off Press. Drop (psi)	1	50



48" diameter Model 2623-8-8 Var-E-Tee

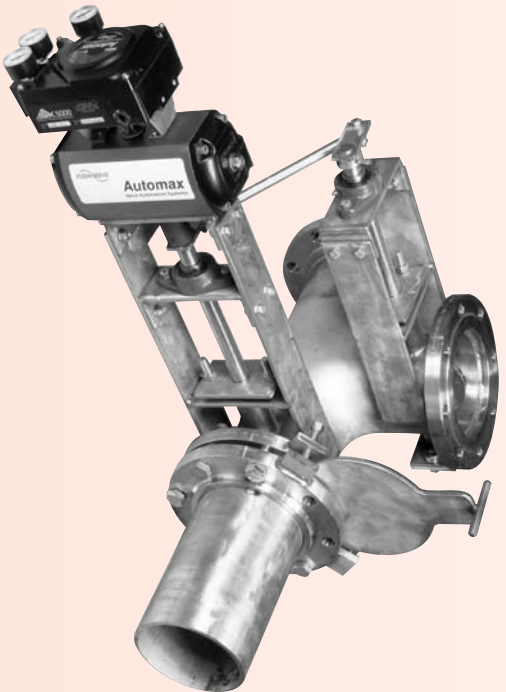
1. Turbine exhaust diverter
2. 900° F @ 8" W.C.

- 16" x 24" x 18" Type 2600 Special Var-E-Tee
1. Gas Turbine Exhaust Temperature Control Valve.
 2. 850° F @ 6" W.C.
 3. Pressure Drop 1" W.C.



8" Type 2623-6-6 Var-E-Tee w/Blanking Plate & Jacking

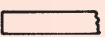
- Screws
1. Reciprocating Engine Exhaust Service @ 900° F.
 2. Designed for 1% Leakage.
 3. Blanking plate to isolate boiler



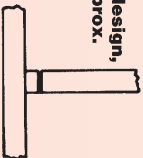
Shan-Rod has developed its valves for use in vibration applications. Please consult factory for details.

Standard Seat Designs

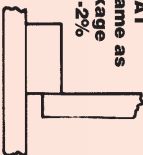
CONVENTIONAL
Swing-thru design,
*4.5% leakage.



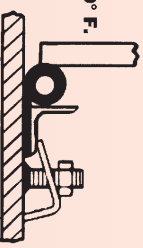
SCISSOR
Swing-thru design,
Leakage approx.
*1-2%



METAL SEAT
Material same as
body - Leakage
approx. *1-2%



TADPOLE SEAT
Materials to 2000° F.
Leakage approx.
*1/4 of 1%.

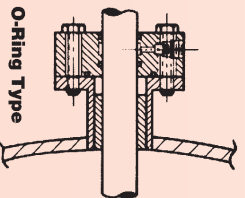


* Leakage based on damper capacity

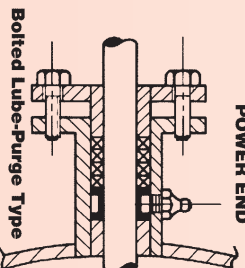
Stuffing Box

Power End - Standard with carbon bushings requiring no lubrication for trouble-free operation. Packing can be replaced without the removal of lever or actuator. It can also be furnished in stainless steel.

Blind End - Same as Power End except with no packing.

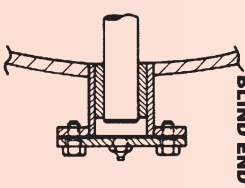


O-Ring Type

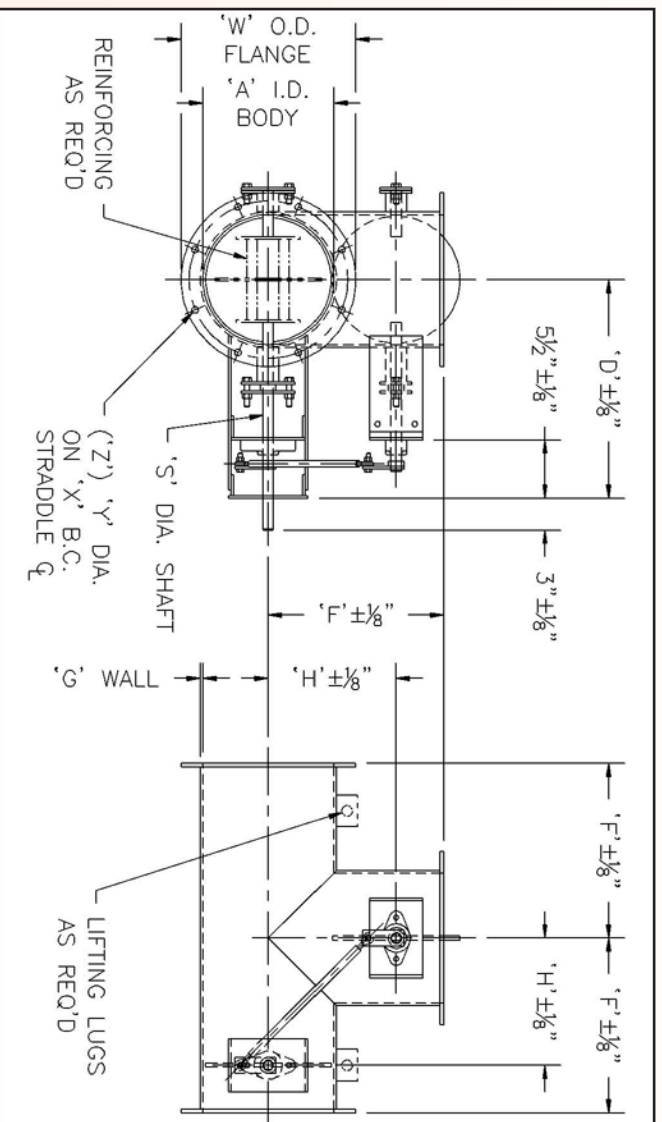


Bolted Lube-Purge Type

POWER END



BLIND END



CONSTRUCTION AND MATERIAL

The 2600 series fabricated Var-E-Tee damper is constructed for heavy duty services. Basic unit has branch centered on main run. If other dimensions due to service conditions are required other than shown, contact the factory or your closest Shan-Rod representative.

NOTES:

1. ANSI drilled flanges with various thicknesses available.
2. Outboard bearing on blind end available.
3. Flange thickness based on size and service conditions.
4. Rolled angle flanges available on medium duty low temperature, low pressure applications.

PIPE SIZE	VALVE DIMENSIONS										FLANGE DIMENSIONS								
	A	D	F	G	H	S	W	X	Y	Z	A	D	F	G	H	S	W	X	Y
6	6 1/4"	1 0 1/8"	1 0 1/2"	3/16"	6"	3/4"	8 1/2"	7 3/8"	1/2"	8									
8	8 3/8"	1 7/4"	1 2 1/2"	1/4"	8"	3/4"	1 0 3/4"	9 3/8"	1/2"	8									
10	1 0 1/4"	1 8 1 3/16"	1 4 1/2"	1/4"	1 0"	1"	1 3 3/8"	1 2"	1/2"	8									
12	1 2 1/4"	2 0 1/6"	1 6 1/2"	1/4"	1 2"	1"	1 5 1/2"	1 4 3/8"	1/2"	1 2									
14	1 3 1/2"	2 0 3/16"	2 0"	1/4"	1 4"	1"	1 7 1/2"	1 6"	1/2"	1 2									
16	1 6"	2 2 1/2"	2 2"	1/4"	1 6"	1"	2 0"	1 8 1/2"	1/2"	1 2									
18	1 7 3/8"	2 3"	2 4"	1/4"	1 8"	1"	2 1 3/8"	1 9 1/8"	1/2"	1 2									
20	1 9 3/8"	2 4 3/16"	2 6"	1/4"	2 0"	1 1/4"	2 3 3/8"	2 2 3/8"	1/2"	1 6									
22	2 1 1/4"	2 5 3/16"	2 8"	1/4"	2 2"	1 1/4"	2 5 1/4"	2 4 1/2"	1/2"	1 6									
24	2 4"	2 6 1/2"	3 0"	1/4"	2 4"	1 1/4"	2 8"	2 6 1/2"	1/2"	1 6									
26	2 6"	2 7 1/2"	3 2"	1/4"	2 6"	1 1/4"	3 0"	2 8 3/4"	1/2"	1 6									
28	2 7 1/2"	2 8 3/16"	3 4"	1/4"	2 8"	1 1/4"	3 2 1/2"	3 1"	1/2"	2 0									
30	2 9 1/2"	2 9 3/16"	3 6"	1/4"	3 0"	1 1/2"	3 4 1/2"	3 3"	3/8"	2 0									
32	3 1 1/4"	3 0 1/2"	3 8"	1/4"	3 2"	1 1/2"	3 6 3/4"	3 5"	3/8"	2 0									
34	3 3 1/4"	3 1 1/2"	4 0"	1/4"	3 4"	1 1/2"	3 8 3/4"	3 7"	3/8"	2 0									
36	3 6"	3 2 1 1/16"	4 2"	1/4"	3 6"	1 1/2"	4 1"	3 9"	3/8"	2 4									
38	3 8 1/2"	3 3 1 3/16"	4 4"	1/4"	3 8"	1 1/2"	4 3 1/2"	4 1"	3/8"	2 4									
40	3 9 1/2"	3 4 1 1/16"	4 6"	1/4"	4 0"	1 1/2"	4 5 1/2"	4 3"	3/8"	2 8									
42	4 1 1/4"	3 5 3/16"	4 8"	1/4"	4 2"	1 1/2"	4 7 3/4"	4 5"	3/8"	2 8									
44	4 4"	3 6 3/4"	5 0"	1/4"	4 4"	1 3/4"	5 0"	4 7"	3/4"	3 2									
46	4 6"	3 7 3/4"	5 2"	1/4"	4 6"	1 3/4"	5 2"	4 9"	3/4"	3 2									
48	4 8 1/4"	3 9"	5 4"	3/8"	4 8"	1 3/4"	5 4 1/4"	5 1 1/2"	3/4"	3 6									
50	5 0 1/4"	4 0"	5 6"	3/8"	5 0"	1 3/4"	5 6 1/4"	5 3 3/4"	3/4"	3 6									
52	5 2 1/2"	4 1 1/8"	5 8"	3/8"	5 2"	1 3/4"	5 8 1/2"	5 6"	3/4"	3 6									
54	5 3 3/4"	4 1 5/8"	6 0"	3/8"	5 4"	1 3/4"	6 0 3/4"	5 8 1/4"	3/4"	3 6									
56	5 6"	4 2 1 3/16"	6 2"	3/8"	5 6"	1 3/4"	6 3"	5 9 1/2"	3/4"	3 6									
58	5 8"	4 3 1 5/16"	6 4"	3/8"	5 8"	1 3/4"	6 5"	6 2 1/2"	3/4"	4 0									
60	6 0 1/4"	4 5 1 1/16"	6 6"	3/8"	6 0"	1 3/4"	6 7 1/4"	6 4"	3/4"	4 0									
66	6 6"	4 7 1 3/16"	7 2"	3/8"	6 6"	2"	7 4"	7 0"	3/4"	4 0									
72	7 2"	5 0 1 5/16"	7 8"	3/8"	7 2"	2 1/2"	8 0"	7 6"	3/4"	4 8									
78	7 8"	5 4 1/8"	8 4"	1/2"	7 8"	2 1/2"	8 6"	8 3"	3/4"	5 2									
84	8 4"	5 7 1/8"	9 0"	1/2"	8 4"	2 1/2"	9 2"	8 9"	3/4"	5 6									

As we are continually developing our products, the design of Shan-Rod valves is subject to change without notice.