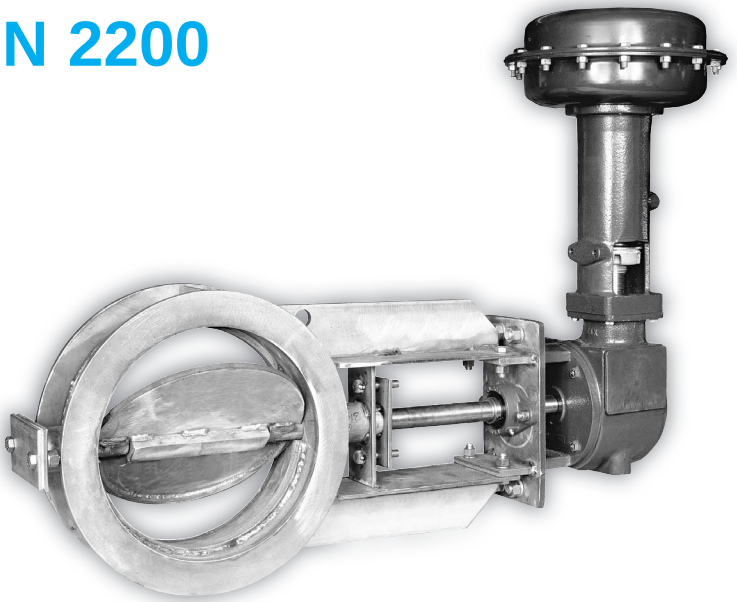
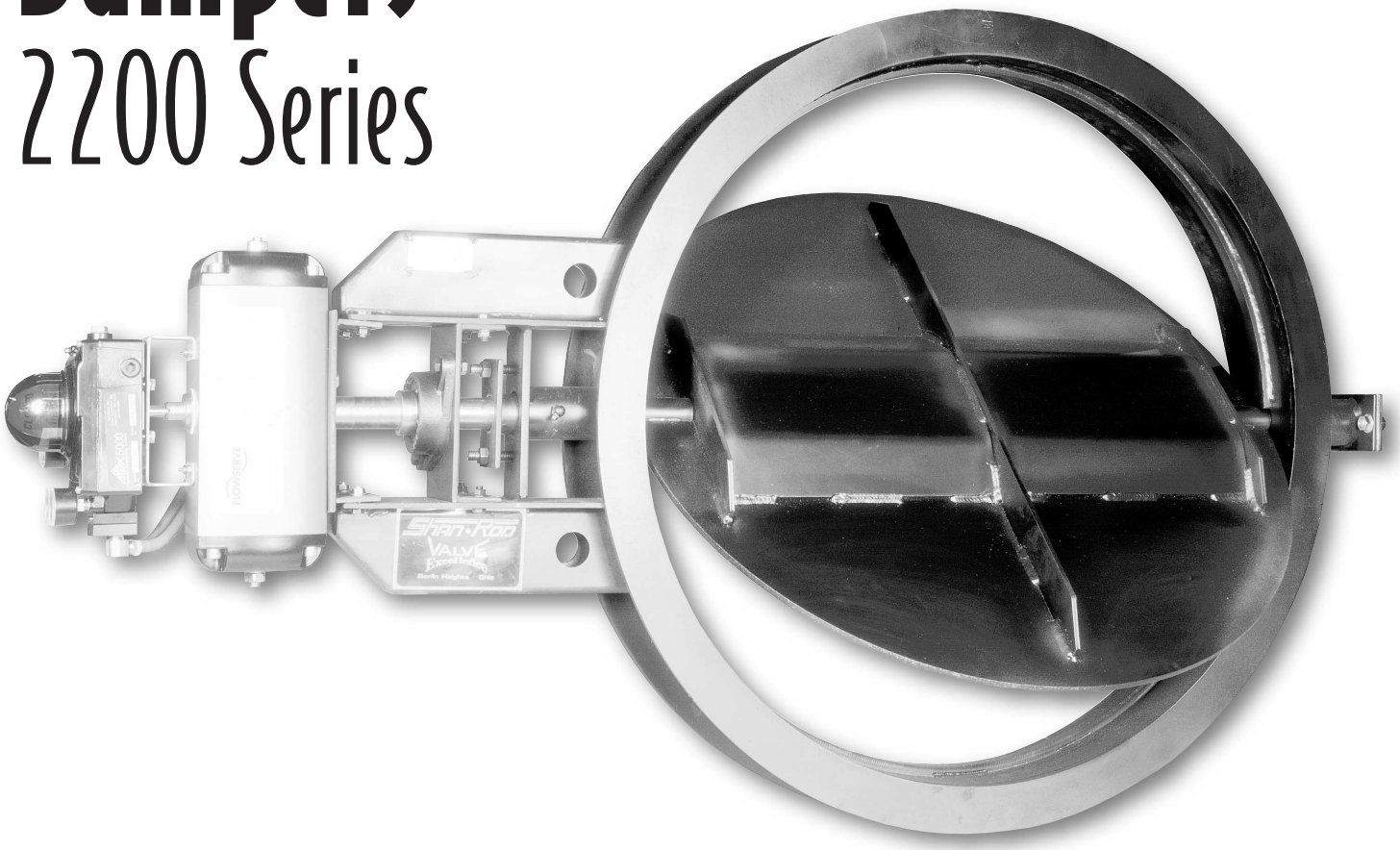
Shan-Rod

fabricated butterfly valves and dampers

BULLETIN 2200

Shan-Rod Fabricated Wafer **Dampers** 2200 Series





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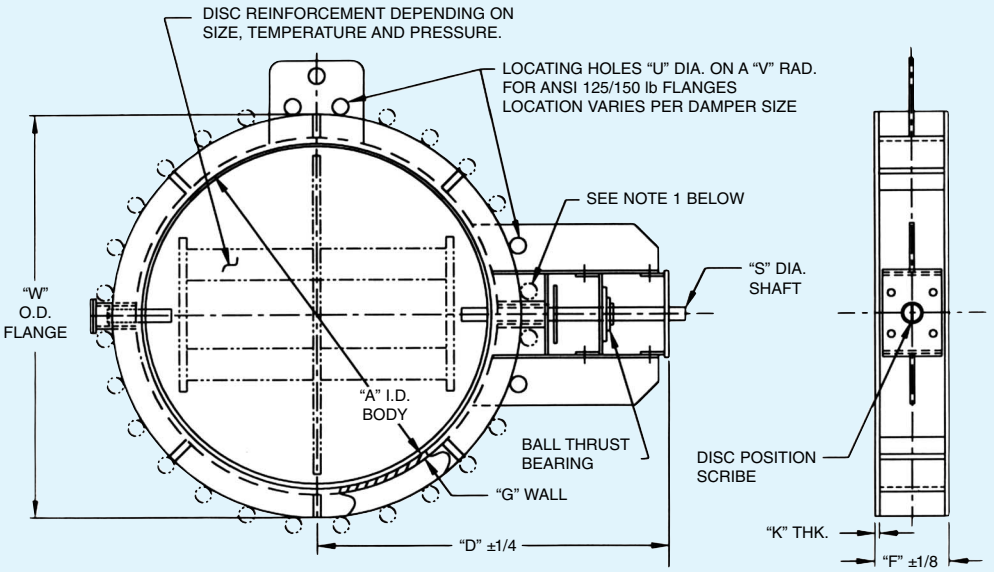


CONSTRUCTION AND MATERIAL

The 2200 series fabricated wafer damper is constructed to fit between 125/150# ANSI flanges. Locating holes are provided to center damper in the pipeline. Flange stiffeners are provided depending on damper size & service conditions. Flange faces are standard mil finish. Machined/ serrated flanges can be provided as an option. Materials of construction are identical to the 2400 series. Damper can be supplied in all weldable materials.

OPERATING CONDITIONS

A. Temperatures up to 2100º F standard.

B. Temperatures up to 2600º F are optional.

C. Pressures to 50 PSIG static.

Consult Bulletin 2400 for further information.

NOTES

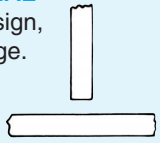
1. Dotted circles represent studs which go between 125/150# ANSI flanges.
2. Blind end stuffing box and blind end outboard ball bearing available as an option.
3. Standard shaft is stub type. Through shaft is available as an option.

NOM EST. SIZE	DIMENSIONS IN INCHES										WTS.
	A	D	F	G	K	S	T	U	V	W	
4	4	14 3/4	6 1/4	1/4	3/8	3/4	2.87	3/4	3 3/4	6 5/8	45
5	5 1/16	14 3/4	6 1/4	1/4	3/8	3/4	3.25	7/8	4 1/4	7 1/2	50
6	6 1/16	14 3/4	6 1/4	1/4	3/8	3/4	3.64	7/8	4 3/4	8 1/2	55
8	8	17 1/8	6 1/4	5/16	3/8	1	4.50	7/8	5 7/8	10 3/4	65
10	10	18 7/8	6 1/4	3/8	3/8	1	3.69	1	7 1/8	13 1/8	70
12	12	20	6 1/4	3/8	3/8	1	4.40	1	8 1/2	15 7/8	75
14	13 1/2	20 7/8	6 1/4	3/8	3/8	1	4.85	1 1/8	9 3/8	17 1/2	80
16	15 1/2	22	6 1/4	3/8	3/8	1	4.14	1 1/8	10 5/8	20	85
18	17 1/2	23	6 1/4	3/8	3/8	1	4.44	1 1/4	11 3/8	21 3/8	90
20	19 1/2	24 1/8	6 1/4	3/8	3/8	1 1/4	3.91	1 1/4	12 1/2	23 5/8	100
22	21 1/2	25 1/4	6 1/4	3/8	3/8	1 1/4	4.26	1 3/8	13 5/8	25 3/4	110
24	23 1/4	26 1/4	6 1/4	3/8	3/8	1 1/4	4.61	1 3/8	14 3/4	28	140
26	25 1/4	27 3/8	6 1/4	3/8	3/8	1 1/4	4.14	1 3/8	15 7/8	30	150
28	27 1/4	28 1/2	6 1/4	3/8	3/8	1 1/4	3.80	1 3/8	17	32 1/2	175
30	29 1/4	29 1/2	6 1/4	3/8	3/8	1 1/2	4.02	1 3/8	18	34 1/2	190
32	31 1/4	30 1/2	6 1/4	3/8	3/8	1 1/2	4.31	1 5/8	19 1/4	36 3/4	245
*34	33 1/4	31 1/2	6 1/4	3/8	3/8	1 1/2	3.97	1 5/8	20 1/4	38 3/4	260
36	35 1/4	32 1/2	6 1/4	3/8	3/8	1 1/2	4.19	1 5/8	21 3/8	41	280
38	37 1/4	33 5/8	6 1/2	1/2	3/8	1 1/2	4.43	1 5/8	22 5/8	43 1/2	300
*40	39 1/4	34 5/8	6 1/2	1/2	3/8	1 1/2	4.12	1 5/8	23 5/8	45 1/2	365
42	41 1/4	35 5/8	6 1/2	1/2	3/8	1 1/2	4.31	1 5/8	24 3/4	47 3/4	475
*44	43 1/4	36 3/4	6 1/2	1/2	1/2	1 3/4	4.06	1 5/8	25 7/8	50	515
*46	45 1/4	37 3/4	6 1/2	1/2	1/2	1 3/4	4.22	1 5/8	26 7/8	52	550
*48	47 1/4	38 3/4	6 1/2	1/2	1/2	1 3/4	3.99	1 5/8	28	54 1/2	585
*50	49	39 3/4	6 1/2	1/2	1/2	1 3/4	4.15	1 7/8	29 1/8	56 1/4	610
*52	51	40 3/4	6 1/2	1/2	1/2	1 3/4	4.32	1 7/8	30 1/4	58 1/2	660
*54	53	41 3/4	8 1/2	1/2	1/2	1 3/4	4.48	1 7/8	31 3/8	60 3/4	800
*56	55	42 3/4	8 1/2	1/2	1/2	1 3/4	4.25	1 7/8	32 1/2	63	845
*58	57	43 3/4	8 1/2	1/2	1/2	1 3/4	4.40	1 7/8	33 5/8	65	900
*60	59	44 3/4	8 1/2	1/2	1/2	1 3/4	4.18	1 7/8	34 5/8	67 1/4	1000
*66	65	47 3/4	8 1/2	1/2	1/2	2	4.59	1 7/8	38	74	1565
*72	71	50 3/4	8 1/2	1/2	1/2	2 1/2	4.32	1 7/8	41 1/4	80	1805

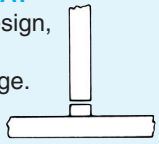
* NOTE: DAMPERS TO BE SUPPLIED WITH UNC TAPPED HOLES OR NUTS AT SHAFT AREAS

Standard Seat Designs

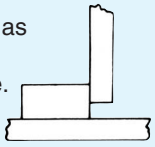
CONVENTIONAL
Swing-thru design,
*4 – 5% leakage.



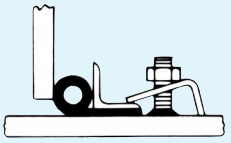
SCISSOR SEAT
Swing-thru design,
approx.
*1 - 2% leakage.



METAL SEAT
Materials same as body – approx.
*1 - 2% leakage.



TADPOLE SEAT
Material furnished varies with service.
Temp. to 1800º F.
approx.
*1/4 of 1% leakage.



*Leakage based on damper capacity.

As we are continually developing our products, the design of SHAN•ROD valves is subject to change without notice.