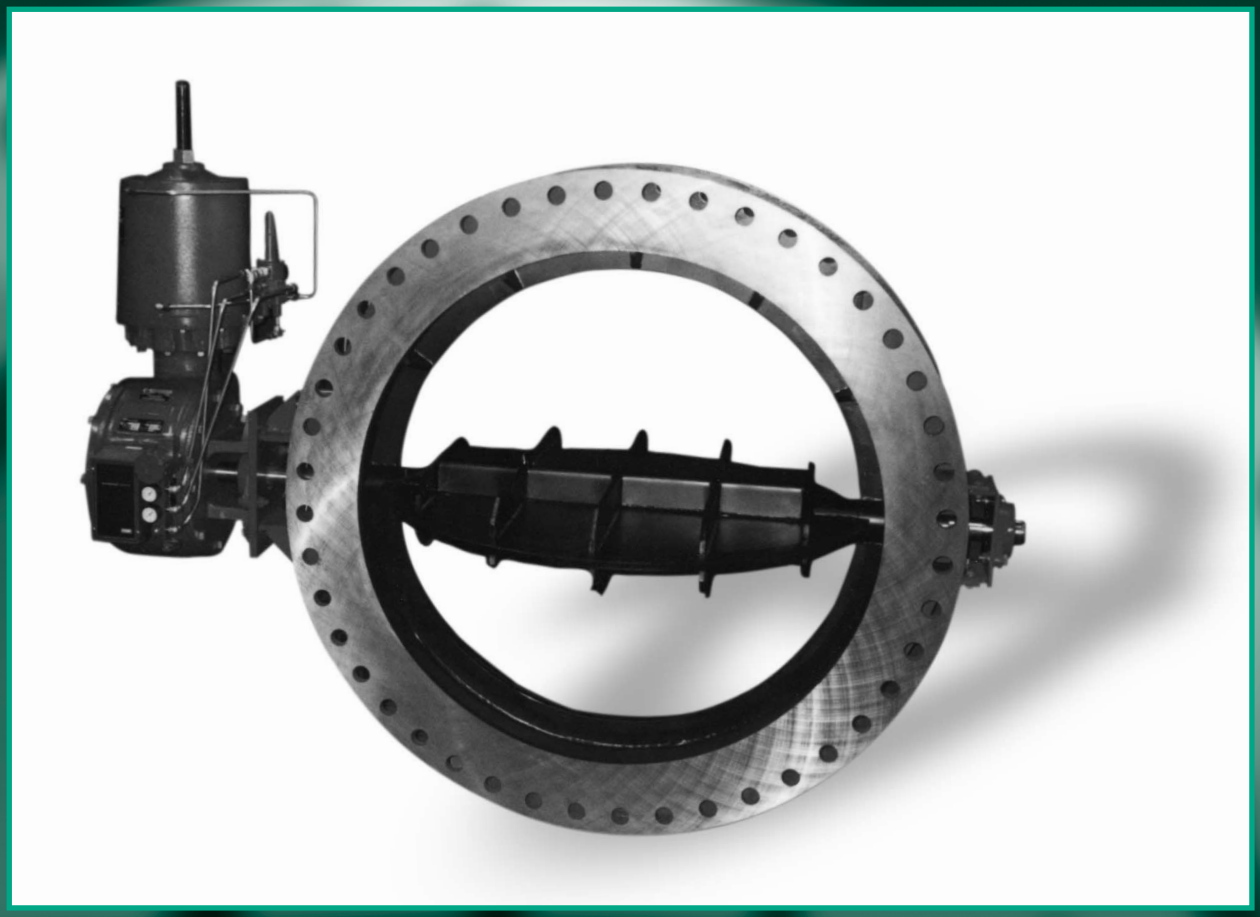
# Shan-Rod

fabricated butterfly valves and dampers

bulletin 2300



# Shan-Rod Fabricated Butterfly Dampers 2300 Series

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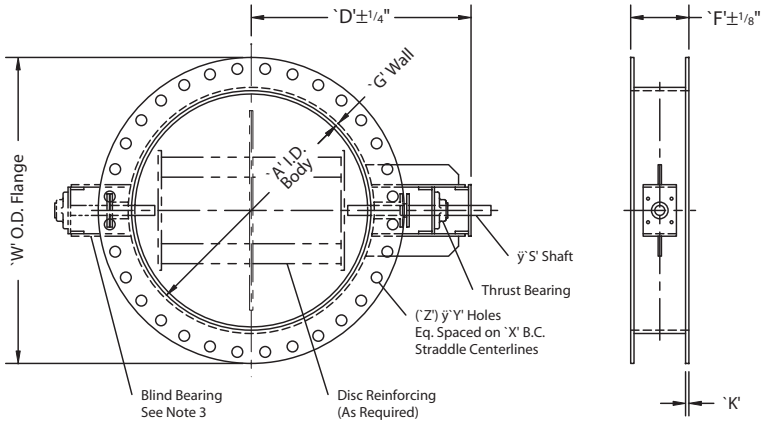
# Model 2300 Series Butterfly Damper




## Construction and Material

The 2300 series fabricated damper is constructed to bolt up to ANSI drilled flanges. Each flange is individually bolted to adjacent flange on duct/pipe. Flange stiffeners are provided depending on damper size and service conditions. Flange faces are standard mill 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

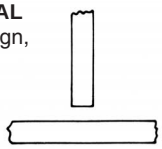
A. Temperatures up to 850°F standard.
B. Temperatures up to 2600°F are optional.
C. Pressures of 50 PSIG static.
Consult Bulletin 2400 for further information.

## Notes

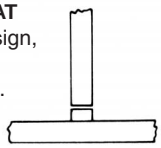
1. Larger Sizes and Special Sizes - Consult Factory.
2. Sizes 4-10" have Sch. 40 Wall thickness.
3. Blind End Bearing Standard on Size 72" and Larger.
4. Standard Shaft is Stub Type. Through Shaft is Available as an Option.

| Nom Size | Valve Dimensions | | | | | | Flange Dimensions | | | | Est Wts |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | D | F | G | K | S | W | X | Y | Z | |
| 4" | 4" | 14¾" | 9" | ② | ⅜" | ¾" | 9" | 7½" | ¾" | 8 | 74# |
| 5" | 5⅛" | 14¾" | 9" | ② | ⅜" | ¾" | 10" | 8½" | ⅞" | 8 | 80# |
| 6" | 6⅛" | 14¾" | 9" | ② | ⅜" | ¾" | 11" | 9½" | ⅞" | 8 | 83# |
| 8" | 8" | 17⅛" | 9" | ② | ⅜" | 1" | 13½" | 11¾" | ⅞" | 8 | 99# |
| 10" | 10" | 18⅞" | 9" | ② | ⅜" | 1" | 16" | 14¼" | 1" | 12 | 107# |
| 12" | 12" | 20" | 9" | ⅜" | ⅜" | 1" | 19" | 17" | 1" | 12 | 123# |
| 14" | 13½" | 20⅞" | 12" | ⅜" | ⅜" | 1" | 21" | 18¾" | 1⅛" | 12 | 149# |
| 16" | 15½" | 22" | 12" | ⅜" | ⅜" | 1" | 23½" | 21¼" | 1⅛" | 16 | 165# |
| 18" | 17½" | 23" | 12" | ⅜" | ⅜" | 1" | 25" | 22¾" | 1¼" | 16 | 175# |
| 20" | 19½" | 24⅛" | 12" | ⅜" | ⅜" | 1¼" | 27½" | 25" | 1¼" | 20 | 200# |
| 22" | 21½" | 25¼" | 12" | ⅜" | ⅜" | 1¼" | 29½" | 27¼" | 1⅜" | 20 | 216# |
| 24" | 23¼" | 26¼" | 12" | ⅜" | ½" | 1¼" | 32" | 29½" | 1⅜" | 20 | 263# |
| 26" | 25¼" | 27⅜" | 12" | ⅜" | ½" | 1¼" | 34¼" | 31¾" | 1⅜" | 24 | 285# |
| 28" | 27¼" | 28½" | 12" | ⅜" | ½" | 1¼" | 36½" | 34" | 1⅜" | 28 | 308# |
| 30" | 29¼" | 29½" | 12" | ⅜" | ½" | 1½" | 38¾" | 36" | 1⅜" | 28 | 331# |
| 32" | 31¼" | 30½" | 12" | ⅜" | ½" | 1½" | 41¾" | 38½" | 1⅝" | 28 | 376# |
| 34" | 33¼" | 31½" | 12" | ⅜" | ½" | 1½" | 43¾" | 40¼" | 1⅝" | 32 | 440# |
| 36" | 35¼" | 32½" | 12" | ⅜" | ½" | 1½" | 46" | 42¾" | 1⅝" | 32 | 521# |
| 38" | 37¼" | 33⅝" | 12" | ½" | ½" | 1½" | 48¾" | 45¼" | 1⅝" | 32 | 567# |
| 40" | 39¼" | 34⅝" | 12" | ½" | ½" | 1½" | 50¾" | 47¼" | 1⅝" | 36 | 601# |
| 42" | 41¼" | 35⅝" | 12" | ½" | ½" | 1½" | 53" | 49½" | 1⅝" | 36 | 648# |
| 44" | 43¼" | 36¾" | 12" | ½" | ½" | 1¾" | 55¼" | 51¾" | 1⅝" | 40 | 758# |
| 46" | 45¼" | 37¾" | 12" | ½" | ½" | 1¾" | 57¼" | 53½" | 1⅝" | 40 | 805# |
| 48" | 47¼" | 38¾" | 12" | ½" | ½" | 1¾" | 59½" | 56" | 1⅝" | 44 | 851# |
| 50" | 49" | 39¾" | 12" | ½" | ½" | 1¾" | 61¼" | 58¼" | 1⅞" | 44 | 898# |
| 52" | 51" | 40¾" | 12" | ½" | ½" | 1¾" | 64" | 60½" | 1⅞" | 44 | 1015# |
| 54" | 53" | 41¾" | 12" | ½" | ¾" | 1¾" | 66¼" | 62¾" | 1⅞" | 44 | 1069# |
| 60" | 59" | 44¾" | 12" | ½" | ¾" | 1¾" | 73" | 69¼" | 1⅞" | 52 | 1332# |
| 66" | 65" | 47¾" | 18" | ½" | ¾" | 2" | 80" | 76" | 1⅞" | 52 | 2513# |
| 72" | 71" | 50¾" | 18" | ½" | 1" | 2½" | 86½" | 82½" | 1⅞" | 60 | 3178# |
| 84" | 83" | 56¾" | 18" | ½" | 1" | 2½" | 99¾" | 95½" | 2⅛" | 64 | 3892# |
| 96" | 95" | 62¾" | 18" | ½" | 1" | 3" | 113¼" | 108½" | 2⅜" | 64 | 4793# |

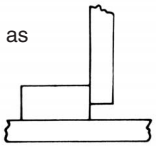
**CONVENTIONAL**
Swing-thru design,
*4-5% leakage.



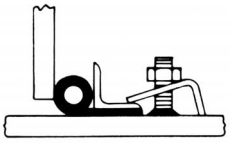
**SCISSOR SEAT**
Swing-thru design,
approx.
*1-2% leakage.



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



**TADPOLE SEAT**
Material furnished
varies with service.
Temp. to 1800° 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.**