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*Your Added Value*

ISO 9001 PENDING

# LINE BLINDS



**Design:** Our equipment is built to the highest industry standards and is carefully designed to cost-effectively provide reliable service with ease of maintenance.

**Engineering:** Our team is highly qualified with a broad base of academic, application and field experience.

# Line Blinds

## Why use HIS Line Blinds?

HIS Line Blinds are manufactured to exacting specifications and represent a cost-effective, potential solution to what would normally be substantially more expensive block & bleed style valves. They are a more efficient and convenient alternative to “blanking plates” or “blind flanges” which have substantial labor costs associated with their insertion and removal. The outstanding inherent design feature of the HIS Line Blind that should be recognized is that there can be NO leakage downstream of the Line Blind – it is not physically possible! The only possible leak path of the Line Blind is to atmosphere and this can only happen in the HIS design, when the o-ring seal which is fully visible has not been properly maintained or is damaged. To compare the two most cost-effective alternatives to the block & bleed style valves:

HIS Line Blind	Blanking Plate / Blind Flange
5 sets of integral, lubricated bolting	Requires removal of the flange bolting, which may be corroded & seized (with the need sometimes to have on hand extra long bolting to allow for the thickness of the blind flange) which consists of 20 sets on a 20 or 24 inch flange
Integral jack and swing bolts	Requires prying apart of the mating flanges with a pry bar
Integral o-ring seals	Replacement of the flange gaskets
No lifting per se required – the blind plate (also known as the goggle or spectacle plate) rotates on a bushing so it can be rotated by one man in most sizes	Lifting by some means of what can be a very heavy and awkward blind flange (a 24 inch 150 ANSI Blind Flange weighs 415 lbs!!)
Takes minutes to changeover and requires one man for most sizes	Can take several hours to changeover and requires two men minimum for most sizes

There are important distinctions when it comes to maintenance as well. First, where a pipe is being blinded for personnel protection or product contamination reasons during a maintenance cycle the HIS Line Blind provides a positive indication of its open or closed position and a positive seal to the downstream piping. The HIS Line Blind can never fail to close or leak downstream due to wear, erosion, corrosion or other factors. Further, in advance of shutdown, the seals can be visually inspected and replaced while the system is still in operation.

## Design Features

**Simple Operation:** Spread the line with operating bolts using only a bar or pipe. Rotate spectacle plate and tighten again in seconds, without special tools.

**Compact Design:** Not as bulky as block and bleed valves. Less connections needed.

**Position Indicated:** Goggle plate provides positive position indication.

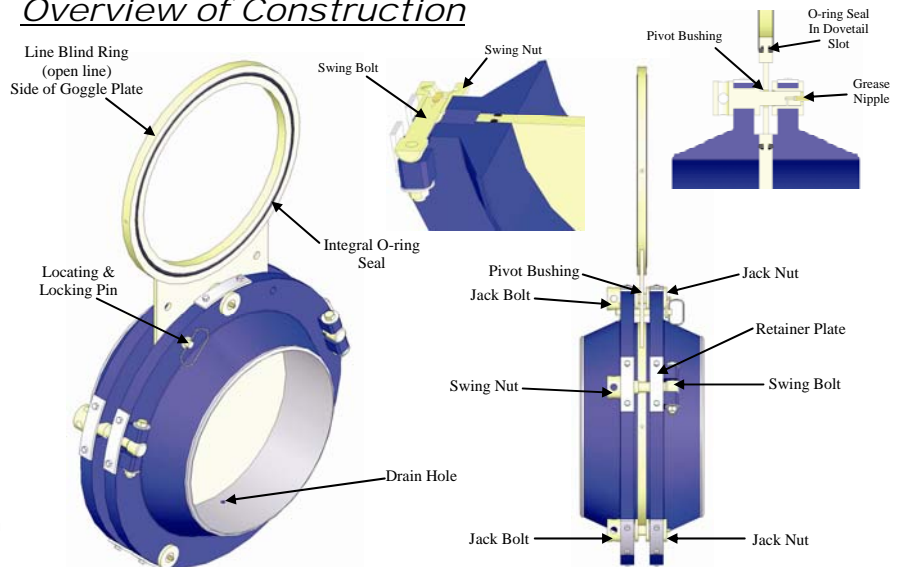
**Full Flow:** Full port design allows no pressure drop or turbulence.

**Low Maintenance:** Integral lubrication for nuts and corrosion resistant goggle plate means minimal maintenance.

**End Connections:** Available as a butt welded end, flanged end or combination. (see Specifications)

**Safety:** 100% assurance of no downstream leakage.

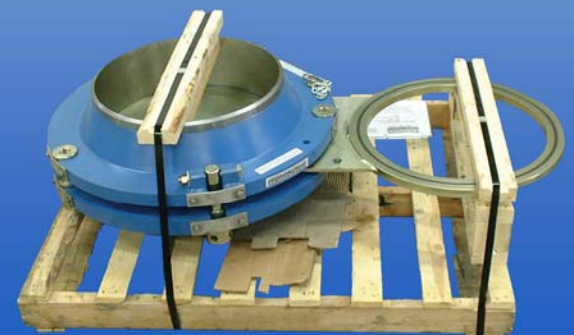
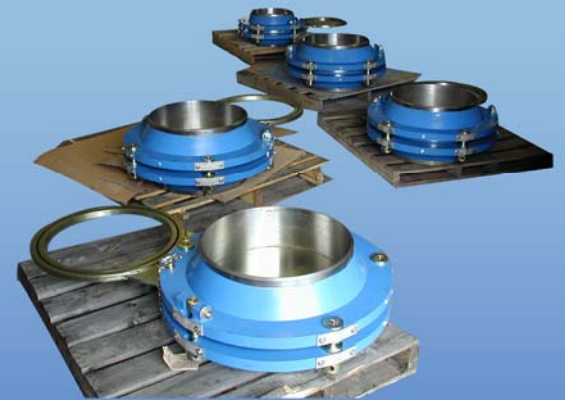
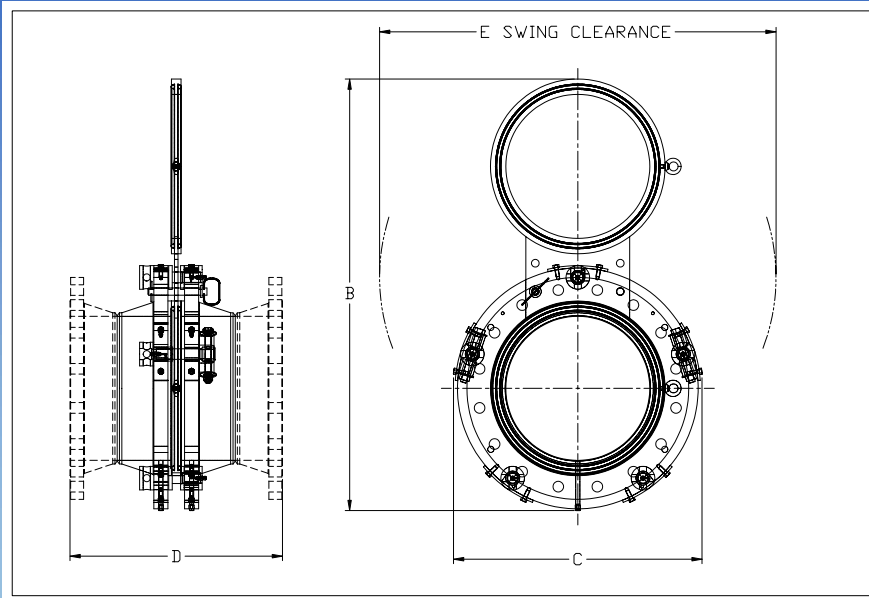
## Overview of Construction



# Specifications

**Quality Control:** Our quality assurance initiates at the quotation stage and follows the product until its shipment.

**Experience:** Our team possesses extensive experience in many fields of industrial design and manufacturing.



Size (inches)	End Connection	A - Bore (inches)	B (inches)	C (inches)	D (inches)	E (inches)	Weight (lbs)
6	Welded	6	21	13	8-3/4	19	130
	Flanged				15-3/4		180
	Flanged by Welded				12-1/4		160
8	Welded	8	26	15-1/2	9-3/4	23-3/4	190
	Flanged				17-3/4		270
	Flanged by Welded				13-3/4		230
10	Welded	10	30-5/8	21	10-1/4	28-1/4	250
	Flanged				18-1/4		360
	Flanged by Welded				14-1/4		310
12	Welded	12	36-1/4	24	11-1/4	33-1/2	340
	Flanged				20-1/4		500
	Flanged by Welded				15-3/4		420
14	Welded	13-1/4	40-7/8	23-3/4	12-1/4	37-1/4	440
	Flanged				22-1/4		660
	Flanged by Welded				17-1/4		550
16	Welded	15-1/4	45-3/4	26-1/4	12-1/2	42	510
	Flanged				22-1/2		790
	Flanged by Welded				17-1/2		650
18	Welded	17-1/4	50-3/4	28-3/4	13-1/2	47	700
	Flanged				24-1/2		1,000
	Flanged by Welded				19		850
20	Welded	19-1/4	55-1/2	31-1/4	13-3/4	51-1/2	810
	Flanged				25-1/4		1,170
	Flanged by Welded				19-1/2		990
24	Welded	23-1/4	65-5/8	36-3/4	14-1/4	61-1/4	1,090
	Flanged				26-1/4		1,610
	Flanged by Welded				20-1/4		1,350
30	Welded	29-1/4	79-1/2	43-1/2	17-1/2	74-3/5	2,180
	Flanged				28-1/4		3,020
	Flanged by Welded				22-7/8		2,600
36	Welded	35-1/4	92-3/4	50-1/2	20	87-3/4	2,880
	Flanged				32-1/2		4,210
	Flanged by Welded				26-3/8		3,550

Note: The dimensions and weights listed above are approximate and may vary with the method of fabrication. Consults factory for certified dimensions and weights.

# Other Products

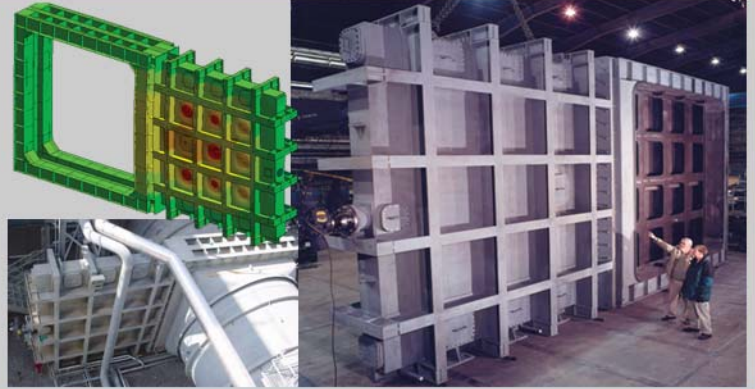
For additional details, please request our Explosion Protection Brochure, Valve & Damper Brochure or visit our website.



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## Heavy Duty & Custom Dampers

Henderson has provided an array of dampers from as small as 8 inch Butterfly style to as large as the Steam Turbine isolation damper for a Bechtel Power Project pictured here which was a 110,000 lb. assembly, 20 feet high and 38 feet long with a 5.5 foot face to face and was equipped with a 20,000 lb. horizontal gate with inflatable seal. The design was seismically qualified using Finite Element Analysis by Henderson Industrial engineering staff.



## Valves

- Metal Seated Butterfly Valves
- Ball Valves and Soft Seated Butterfly Valves
- Gate, Globe and Check Valves
- Custom Fabricated Valves

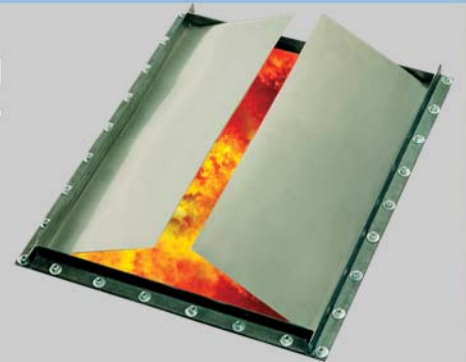
### Related Products

- Actuators
- Instrumentation
- Filters and Strainers



## Explosion Protection

- Explosion Vents
- Explosion Doors
- Explosion Isolation Valves
- Explosion Suppression
- Spark Detection and Spray
- Fire Suppression



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**Henderson Industrial Specialties**  
22 Flanders Drive, Waterdown, Ontario,  
Canada L0R 2H7  
Website: [www.hendersonindustrial.com](http://www.hendersonindustrial.com)  
E-mail: [sales@hendersonindustrial.com](mailto:sales@hendersonindustrial.com)  
Call: 905-690-0425  
Fax: 905-690-0426

Henderson Industrial Specialties is dedicated to excellence in customer service and technical support with a prime focus on specialty and engineered products.

The company is both a manufacturer and distributor/manufacturer's representative, and as such, brings a broad capacity to its clients. Henderson is a small company, but technically competent and efficient.

*Represented By:*

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