Line Blind Valves
Cam-Set®, Cam-Slide®,
Cam-Goggle® & Stacey™



SchuFITETTEROLF

Safety First

Plant and personnel safety is a central theme for socially responsible and safety conscious companies. Following a series of fatal accidents across the globe, regulation now mandates certain minimum technical precautions in many industries. As a result the ability to isolate lines and ensure absolute downstream flow shut-off is essential.



Valve Limitation

Many different types of valves are used to isolate pipelines. However, valves can and do leak. Downstream valve leakage can occur without the knowledge of plant personnel as there is often no visual indication of failure. This scenario can at best lead to product waste or contamination; at worst to the escape of toxic substances or a potentially explosive fire hazard.

Line Blind Process

Line blinding is a process which ensures the total isolation or "blinding" of the downstream flow within a pipeline. It is a common procedure in industries that store, forward or process hazardous chemical or petrochemical substances or where the media may become unstable or potentially dangerous during part of a process. Line blinds often complement conventional valves used for isolation, in that they guarantee absolute and positive shut off to the downstream. Additionally, they provide a clear visual indication of their actual open or closed status.

Traditional Approach

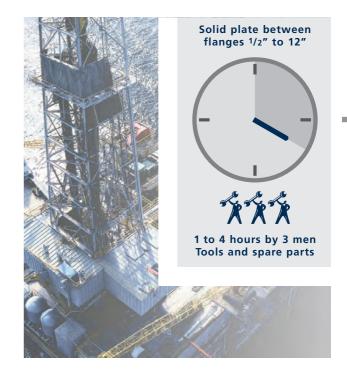
Traditional line blinding methods such as inserting metal plates with a gasket between flanges assure safety, but are time consuming to open or close. Larger size blinds require numerous people or expensive equipment such as cranes to change.

Time Consuming

In the past, changing line blinds was considered an onerous, time consuming and often dangerous task.

The diagram below illustrates the time and manpower required to change a small size traditional line blind. Rotating the blind requires three men — two man to loosen the bolts and spread the line and the third to raise and rotate the heavy spectacle plate. It could take up to 4 hours to rotate one blind — particulary when nuts and bolts are rusted.

For larger size blinds above 12 inches the changing process can take between 4 and 12 hours by a team of up to 6 men. As such, traditional line blinding techniques represent a significant manpower, cost and safety factor.





The Modern Alternative - The Cam-Set® & Cam-Slide®

Modern line blind systems such as the SchuF Fetterolf Cam-Set or Cam-Slide change the installation of the blind into a one man operation taking only minutes to complete. Downstream safety is assured. In all sizes, the Cam-Set/Slide makes line blinding convenient, fast and safe.

Convenient, Fast, Safe

Convenient

The Cam-Slide and Cam-Set are designed around an internal cam system such that the body flanges do not have to be spread and the adjacent piping does not have to move when the spectacle plate is changed. This simple feature has enormous benefits, as piping movement can cause many problems – misalignment of the piping, piping and vessel damage, and physical injury to the men trying to move heavy piping.

Fast and Cost Effective

The Cam-Set/Slide is not only convenient but fast too. No bolts have to be loosened or removed – often a difficult job if the bolts are rusted. The Cam-Set/Slide in comparison can be

SchuF Cam-Set® line blind 1/2" to 12"

30-60 seconds by 1 man

changed in less than a minute for small sizes and up to 3 minutes for larger sizes.

SchuF Fetterolf line blind valves lead to significant cost and time savings.

In comparison to traditional smaller size line blinds to say twelve inches, the Cam-Set can save between one and four hours per man per job.

For larger sized blinds the time saving can be anything from 4 to 12 hours per man per job. In addition to the time savings there are no additional crane rental or usage fees required.

Cam-Set/Slide® - Key Features

- Absolute positive shut-off
- Fast change
- One man operation
- No flange or line spreading
- No special equipment required
- Conforms / exceeds
 ASME B16.5 and API 590
- Unique safety features



Cam-Set DN 150 (6"), ASME 150#

Materially Safe

The Cam-Set/Slide incorporates many material and construction safety features. They are built to meet or exceed ASME B16.5 standards. The thickness of the Cam-Set spectacle plate is equal to or

greater than that required by API 590 (ASME B16.48).

The tensile bolting area of the Cam-Set/Slide is also equal to or greater than the tensile bolting area used in the flanges.

All of the body bolts are tack welded so that they cannot be inadvertently removed or loosened.

The SchuF Fetterolf Cam-Set/Slide is easy to operate and safe — by design.



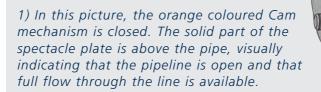


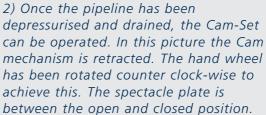
Operation

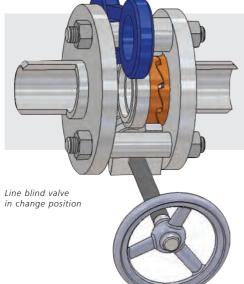
How the Cam-Set® and Cam-Slide® work

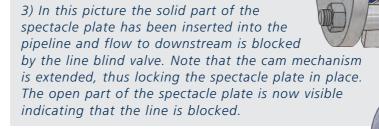
The internal cam system is actuated via a single screw (or hand wheel) which is perpendicular to the axis of the pipe. When the screw is rotated a movable inclined plane slides against a fixed inclined plane, moving the seal carrier away from the spectacle plate, thus freeing it to be moved to a new position.

The working of the Cam mechanism is illustrated below with drawings of a Cam-Set. The Cam-Slide operates in exactly the same way with the exception that the spectacle plate slides from left to right or vice versa rather than swinging.









Note: the above drawings are presented in a cut away format in order to illustrate the internal functioning of the line blind.

Line blind open

Line blind closed

Cam Product Range

The Cam product range includes the Cam-Set, Cam-Slide and Cam-Goggle valves. They all use the unique and proven Cam mechanism.

Cam-Set® - Swinging Line Blind Valve - Model 81FC

The Cam-Set (Model 81FC) is a swing type of quick acting

line blind. It has a three bolt design and a trian-

gular body.
It is appropriate for applications that require fast blinding turnaround and that do not exceed 1500# pressure

class. It can be made as a standard design up to 48"(DN 1200).

Cam-Slide® - Sliding Line Blind Valve - Model 81CS

The Cam-Slide (Model 81CS) is a quick acting sliding line blind. It has a multi bolt design and a rectangular body. It is appropriate for applications that require fast blinding turnaround up to 2500# pressure class. It can be made as a standard design up to 64" (DN 1600).

Its multi bolt design enables a more compact build and lighter weight which make it ideal for tight spaces or reduced face to face dimensions.

Cam-Slide® Variants

The Cam-Slide is also available as a non spill line blind (Model 81BS), in a compact design (Model 81CS Compact) with significantly reduced face to face dimensions and as a high temperature model suitable for design

temperatures up to 800°C (Model 81HT).

Cam-Goggle® Valve - Model 81FG

The Cam-Goggle Valve is a further development of the Cam-Slide valve, except it may be provided with an enclosed body and is specifically designed to conditions rather than to class.



8" Non Spill Cam-Slide Valve

Cam-Set® and Cam-Slide® Options

The Cam-Set/Slide comes with many options to match almost every requirement or operating environment. This includes a wide variety of seals and seal materials.

All seals in a Cam-Set/Slide line blind can be replaced without removing the line blind from the piping system.

The sealing rings themselves are protected within the body of the blind, but can also be placed in the spectacle plate should regular inspection be required.



Cam-Set DN 100 (4"). ASME 300#

Corrosive Environment

The Maritime industry is a good example of line blind usage in a corrosive environment. When used aboard a ship or FPSO, a Sermetel coating is frequently used to protect any carbon steel parts from corrosion due to the salt air atmosphere. Likewise the stem is in a high alloy corrosive resistant material, the hand wheel is bronze and all bolting or wetted parts are in stainless steel.

Larger Sizes

As the size of the line blind increases above 12 inches and up to 48 inches or greater, the job of swinging the spectacle plate can be cumbersome due to the offset weight. In these instances a special **counterweight** can be added to the blind which maintains the easy and safe "One Man Operation" benefits of the Cam-Set/Slide for larger sizes.

Line blinding using the Cam-Set/Slide® can be achieved by one man on **one side** of the pipeline, without the necessity of multiple spreader bolts or a crane.



Cam-Set DN 500 (20"), ASME 150# with spectacle plate support

Coupled Piping

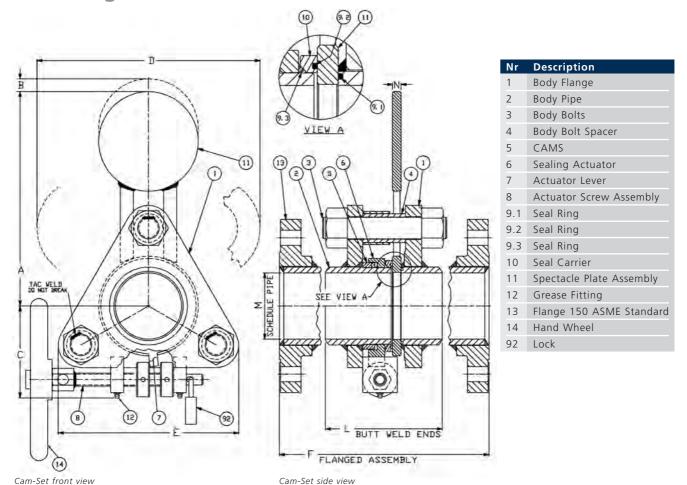
The Cam-Set/Slide can be used on close coupled piping such as tank farms, off shore platforms or ships and barges.

Other options include:

- Locking devices
- Spectacle plate covers
- Special coatings
- Drain ports
- Drain, purge and sampling valve combinations
- Roller support for spectacle plates
- Sealing ring in spectacle plate
- Dual and triple sealing rings
- Pneumatic, electric or hydraulic actuation
- Counterweights
- Diverse selection of o-rings



Drawing and Dimension Table for Cam-Set® (ASME 150#)

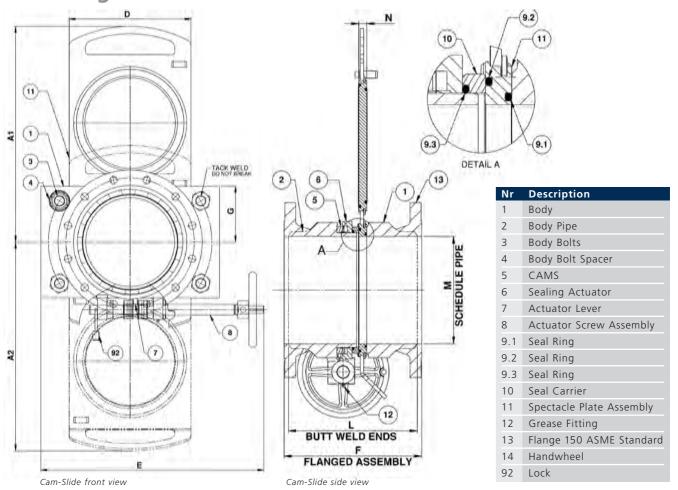


Size	mm:	Α	В	C	D	E	F	L	M	N
DN 25 /	1"	127	13	64	159	127	178	165	80	13
DN 40 /	1 1/2"	159	16	76	197	152	190	178	80	13
DN 50 /	2″	178	10	83	229	165	203	190	80	13
DN 80 /	3"	229	19	102	289	203	222	203	80	13
DN 100	4"	279	19	127	356	235	248	229	80	13
DN 125	/ 5"	349	25	140	438	298	292	267	80	16
DN 150	6"	394	25	171	495	337	292	267	80	16
DN 200	/ 8"	502	41	200	635	400	317	n/a	80	16
DN 250	/ 10"	654	44	229	816	483	356	330	60	16
DN 300	/ 12"	762	57	279	953	591	381	356	805	22
DN 350	/ 14"	800	57	279	1003	625	406	381	хH	22
DN 400	/ 16"	908	89	330	1137	711	432	406	60	22
DN 450	/ 18"	975	76	368	1232	813	686	660	60	25
DN 500	/ 20"	1111	73	413	1403	857	711	686	60	25
DN 600	/ 24"	1245	83	470	1581	978	838	813	60	38

All dimensions above are in mm for ASME class 150# unless otherwise stated. Alternative Cam-Set models are available on request.



Drawing and Dimension Table for Cam-Slide® (ASME 150#)



Size AME	Size DIN	A1	A2	D	Е	F	G	L	M	N	Weight Kg/Lbs
1"	DN 25	134	114	89	279	177,8 [7.00"]	51	166	1" SCH. 80	13	15/33
11/2"	DN 40	159	140	102	323	190 [7.50"]	178	178	1 ¹ / ₂ " SCH. 80	13	25/55
2"	DN 50	184	165	115	366	203,2 [8.00"]	77	192	2" SCH. 80	13	29/64
3″	DN 80	263	251	170	268	222,3 [8.75"]	65	203,2	3" SCH. 80	12,7	35/77
4"	DN 100	335	321	200	431	247,7 [9.75"]	90	228,7	4" SCH. 80	12,7	56/123
5″	DN 125	388	371	228	462	292,1 [11.50"]	266,7	266,7	5" SCH. 80	14	75/165
6"	DN 150	440	420	255	493	292.1 [11.50"]	108	266,7	6" SCH. 80	15,9	97/214
8″	DN 200	510	497	300	573	317.5 [12.50"]	128	292,1	8" SCH. 80	15,9	115/254
10"	DN 250	610	590	345	625	355.6 [14.00"]	163	330	10" SCH. 60	15,9	190/419
12"	DN 300	725	702	410	750	381 [15.00"]	188	357	12" SCH. 80S	22	270/595
14"	DN 350	778	761	470	816	406.4 [16.00"]	213	381	14" SCH. 80	22,2	420/926
16"	DN 400	783	761	486	931	432 [17.00"]	251	406	16" SCH. 60	22,4	496/1093
18"	DN 450	881	856	547	1047	686 [27.00"]	282	660	18" SCH. 60	25	568/1230
20"	DN 500	894	894	625	1250	711 [28.00"]	308	686	20" SCH. 60	26	1208/2663
24"	DN 600	1073	1073	750	1500	838.2 [33.00"]	338	813	24" SCH. 60	31,8	1450/3197
28"	DN 700	1252	1252	875	1750	914.4 [36.00"]	394	885	28" SCH. 30	37	1692/3730
30"	DN 750	1341	1341	938	1875	868.8 [34.25"]	423	1016	30" SCH. 20	40	1812/3996

All dimensions above are in mm for ASME class 150# unless otherwise stated. Alternative Cam-Slide models are available on request.



Cam-Goggle® Valve

Goggle valves are very similar to line blind valves. They are generally used in Gas Blast Furnace or very low pressure applications (less than 1 bar), often have enclosures and can be made up to 120" (DN 3000).

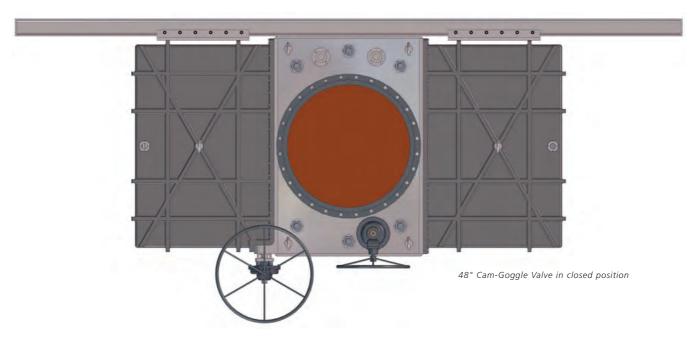
Open and Closed Models

There are two types of Cam-Goggle valve available – open and enclosed types. The open type is for all intents and purposes no different than a line blind valve with the exception that it may be specified according to operating conditions rather than to ASME pressure class. This is an important factor, particularly for large size valves where a valve built to class can become very heavy. The Goggle valve in comparison may be built exactly to the opera-

Cam-Goggle® - Features

- Man Safe Isolation
- 100% shut off of media flow
- Non line spreading Cam Design
- Dual plate seal rings for added safety
- Spectacle plate lift mechanism to ensure smooth plate transition
- Split enclosure on rails for ease of maintenance

ting pressure requirements – e.g. 75 psi. This reflects the engineering principal that body and spectacle plate wall thickness increases in accordance with pressure.



Enclosed Cam-Goggle®

Enclosed Cam-Goggle valves enable the spectacle plate to be changed without releasing any medium to atmosphere. They are man safe and 100% gas tight to the atmosphere.

The enclosure is supplied with a venting system to allow any gases to be removed safely. The above picture shows the Cam-Goggle valve

in the closed position. The spectacle plate is shown in orange for illustrative purposes. The valve is made up of three main parts – the central core body, the enclosure "tanks" on both sides and the rail beam above. The core body has two vent ports in order to vent gases to atmosphere if and when required.



Operation

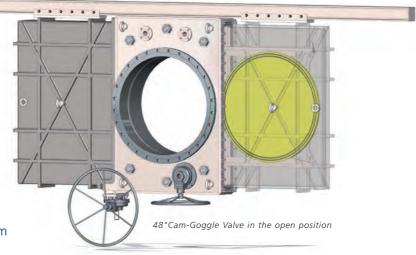
Spectacle plate movement is achieved in two simple steps - the first hand wheel operates the internal cam mechanism. The hand wheel releases the pressure on the seal tight internal o-ring which in turn enables the second gear actuated hand wheel to move the spectacle plate from the closed to the open position.

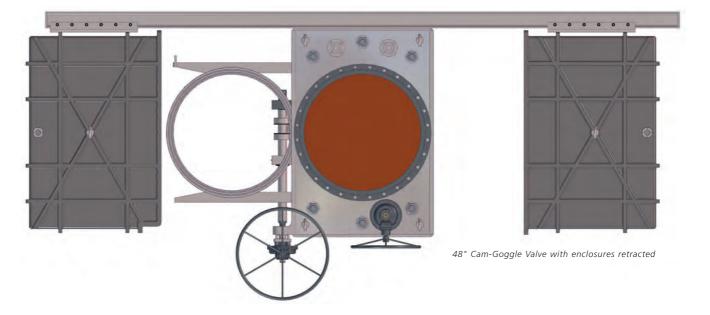
For illustrative purposes the right hand enclosure or tank is shown without the front plate wall and the spectacle plate is coloured yellow.

The tank enclosures are mounted on a rail beam and rollers which enables them to be pushed back for ease of maintenance.

However, some limited maintenance can be achieved in the closed position.

The Cam-Goggle can be actuated electrically or hydraulically or a combination of both. Fetterolf can also supply compact hydraulic units for power supply.





Options

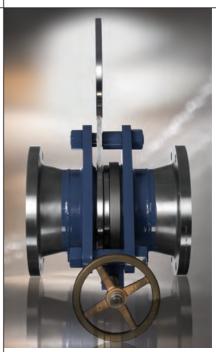
- Rail beam option for assembly
- Bevel gearbox manual actuation, electric, pneumatic or hydraulic actuation
- Venting to atmosphere of totally enclosed type in closed position
- Optional viewports to verify open/closed position
- A high level of customisation is available upon request



Cam-Set®, Cam-Slide®, Cam-Goggle® Specifications

Description	Standard	Options
Size	DN 10-15 (¹ / ₂ ") to DN 1200 (48")	Cam-Goggle to DN 2500 (100")
Pressure class	ASME 150#, 300#, 600#	Cam-Slide to ASME 2500#
Body material	Carbon steel	316 stainless steel; others on request
Spectacle Plate	Stainless steel	Duplex, Hastelloy, Alloy 20, Inconel, Nickel, Monel & Titanium
Stem	Carbon steel	Monel
Bolting	Carbon steel	316 stainless steel; others on request
O-Rings	Viton, Buna-N	Aflas, Teflon, Nordel, Chemraz, Kalrez and others depending on application
Temperature	232°C / 450°F	Up to 800°C / 1472°F with special design Cam-Slide
Pipe Connection	Butt weld end	Flanged
Drain/Purge Connection	n/a	Line drain, purge or sampling valve combinations are possible
Coatings	Standard paint	Epoxy, Polyurethane, Sermetel, Ceramic and many others
Reduced Face to Face Dimensions	n/a	Yes with comapct Cam-Slide model
Counterweight or roller support	n/a	Yes; recommended on large sizes
Locking device	n/a	Yes
Standards/Certification	ASME, DIN, CRN, ISO, PED	NACE
Actuation	Hex nut	Hand wheel, pneumatic, hydraulic

Engineering Standard	ds
ASME Standard	Description
B16.5	Pipe flanges and flanged fittings
B16.34	Valves - flanged, threaded and welding end
B31.1	Power piping
ASTM F1020-86	Line Blind Valves for Marine Applications
ASME B&PV Code	Description (Boiler & Pressure Vessel Code)
Section 2	Material
Section 8	Rules for construction of pressure vessels
Section 9	Welding and brazing qualifications
API Standard	Description
API 590 (now ASME 16.48)	Steel Line Blanks for Refining
API 598	Valve inspection and testing
API 2217	Guidelines for confined space work in the Petroleum Industry
Others	Description
ISO 9001	Quality management system
NACE MR0175	Sulfide stress cracking and stress corrosion



Cam-Set DN 150 (6"), ASME 150#, side view



Stacey™ Line Blind System

The Stacey is a modern line spreading line blind system. It has a number of advantages over conventional blind plates such as ease of use, one to two man operation, absolute shut off, and is relatively quick to use. In this respect the Stacey can be changed in five to ten minutes depending on size and can break any crust build-up in or on the blind.

Stacey spectacle blinds are available in **all** ASME pressure ratings, a wide range of sizes



Stacey DN 850 (34") with counterweight

and a wide range of materials. The multiple bolts expand the list of possible sealing materials for service temperatures from cryogenic to elevated. They are a viable alternative to the Cam-Set when flexibility and ease of use are less important.

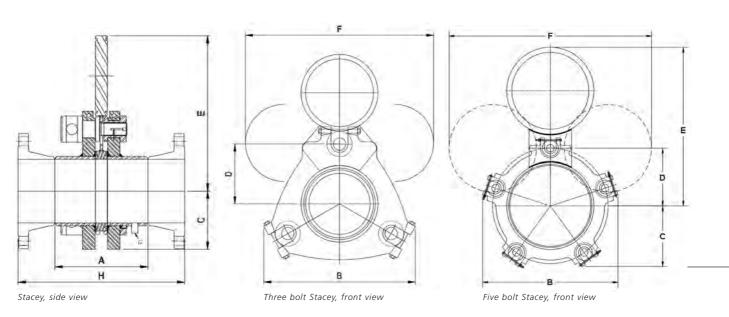
Operation

With the Stacey blind 3, 5, 7 or 9 bolts (depending on size) are loosened in even quarter turns for one to two revolutions, automatically spreading the body flanges apart far enough to rotate the spectacle plate to its desired position — fully open or closed.

Retighten the bolts evenly and the change is complete. Bolt heads are drilled to receive a short piece of steel bar or pipe — no special tools are required.

Applications

The Stacey is ideal for certain types of applications where the line blind must be both large and have a high pressure rating (ASME 900 and above). Similarly several applications that require the line blind to operate in a severe or powdery environment, such as in the cement or alumina industry, are better served by the Stacey.



Dimension Table for Stacey™

mm	Class	DN 25 / 1"	DN 40 / 11/2"	DN 50 / 2"	DN 65 / 21/2"	DN 80 / 3"	DN 100 / 4"	DN 125 / 5"	DN 150 / 6"
Α	150# 300# 600#	165 165 191	178 178 210	178 178 210	203 222 241	203 222 241	203 241 273	229 279 292	229 279 292
В	150# 300# 600#	197 197 216	219 219 254	219 219 254	241 241 305	241 241 305	305 343 406	381 406 457	381 406 457
С	150# 300# 600#	76 76 89	76 76 102	76 76 102	102 102 121	102 102 121	114 130 140	152 152 165	152 152 165
D	150# 300# 600#	67 67 73	76 76 79	76 76 79	92 92 102	92 92 102	114 121 127	149 152 171	149 152 171
E	150# 300# 600#	152 152 165	197 197 191	197 197 191	241 241 248	241 241 248	298 298 330	381 381 445	381 381 445
F	150# 300# 600#	178 178 203	241 241 248	241 241 248	295 295 318	295 295 318	352 365 406	464 473 546	464 473 546
G	Drains	n/a	n/a	13	13	13	13	19	19
Н	150# 300# 600#	273 286 311	302 311 346	302 311 352	340 378 403	340 378 403	352 410 457	403 473 514	403 473 514
				332		103	,	.	311
mm	Class		DN 250 / 10"						
mm A	Class 150# 300# 600#								
	150# 300#	DN 200 / 8" 254 368	DN 250 / 10" 254 381	DN 300 / 12" 279	DN 350 / 14" 305 419	DN 400 / 16" 381 432	DN 450 / 18" 432 -	DN 500 / 20" 483 -	DN 600 / 24"
Α	150# 300# 600# 150# 300#	DN 200 / 8" 254 368 381 419 464	DN 250 / 10" 254 381 406 508 559	279 406 - 565 622	305 419 - 635 699	DN 400 / 16" 381 432 - 711 787	DN 450 / 18" 432 787 -	DN 500 / 20" 483 - - 851 -	610 - - 1.067
В	150# 300# 600# 150# 300# 600# 150# 300#	DN 200 / 8" 254 368 381 419 464 521 165 171	DN 250 / 10" 254 381 406 508 559 610 203 248	DN 300 / 12" 279 406 - 565 622 - 229 305	DN 350 / 14" 305 419 - 635 699 - 254 318	DN 400 / 16" 381 432 - 711 787 - 324 356	DN 450 / 18" 432 787 - 356 -	483 - - - 851 - - 387	DN 600 / 24" 610 1.067 - 479 -
A B	150# 300# 600# 150# 300# 600# 150# 300# 150# 300#	254 368 381 419 464 521 165 171 229 171 178	DN 250 / 10" 254 381 406 508 559 610 203 248 267 213 213	DN 300 / 12" 279 406 - 565 622 - 229 305 - 244	DN 350 / 14" 305 419 - 635 699 - 254 318 - 270 273	381 432 - 711 787 - 324 356 - 298 305	DN 450 / 18" 432 787 - 356	DN 500 / 20" 483 851 - 387	00 600 / 24" 610 1.067 - 479
A B C	150# 300# 600# 150# 300# 600# 150# 300# 600# 150# 300# 300#	254 368 381 419 464 521 165 171 229 171 178 191 451 476	DN 250 / 10" 254 381 406 508 559 610 203 248 267 213 213 229 552 575	279 406 - 565 622 - 229 305 - 244 251 - 648	DN 350 / 14" 305 419 - 635 699 - 254 318 - 270 273 - 737 737	DN 400 / 16" 381 432 - 711 787 - 324 356 - 298 305 - 826	DN 450 / 18" 432 787 356 330	DN 500 / 20" 483 851 387 - 359	DN 600 / 24" 610 1.067 479 454
A B C D	150# 300# 600# 150# 300# 600# 150# 300# 600# 150# 300# 600# 150# 300#	254 368 381 419 464 521 165 171 229 171 178 191 451 476 508 578 597	DN 250 / 10" 254 381 406 508 559 610 203 248 267 213 213 229 552 575 622 711 737	279 406 - 565 622 - 229 305 - 244 251 - 648 673 - 832 851	DN 350 / 14" 305 419 - 635 699 - 254 318 - 270 273 - 737 737 737 - 927 940	711 787 - 324 356 - 298 305 - 826 838 - 1067 1067	DN 450 / 18" 432 787 356 330 - 914 1168 -	DN 500 / 20" 483 851 387 1003 - 1270 -	DN 600 / 24" 610 1.067 - 479 454 1245 1581 -

All dimensions are in mm unless otherwise stated. Dimensions for other Stacey models are available on request.



Industry Case Studies for Cam Product Range & Stacey™

SchuF Fetterolf Cam-Set/Slide and Stacey line blind valves are commonly used in the most critical applications: aboard tankers product cross contamination or accidental overboard discharge assumes the proportions of a disaster; in chemical and petrochemical plants, refineries and tank storage farms; and where vessel entry is a problem. Power generating plants install them upstream of equipment which will require repairs. Other important users include steel mills, cement manufacturing plants, and the pulp and paper industry.

Refinery

Petrobras, the leading state refinery in Brazil, uses the Cam-Set and Stacey line blind system extensively.

They are used in several process areas in the refinery including:

- Gas flare applications
- Hydrocracking units
- Catalytic cracking unit
- Delayed coking
- Storage tanks

Over 200 SchuF Fetterolf line blind valves have been installed. The refinery enjoys a strong reputation for good maintenance and safety procedures.

Tank Terminals

GATX Terminal Corporation is one of the worlds leading port, terminal, rail and ship operators. At their Philadelphia and New Jersey sea terminals, they have replaced all traditional blinds with the Cam-Set. They are used on 16" lines to ensure total isolation between different tanks in order to prevent product cross contamination. Traditional line blinds could not be used as line spreading dented and buckled the tank walls.

The customer has commented: "With the Cam-Set, it is a cinch to quickly change from closed to open by turning only one bolt and not moving any piping!".

Other major tank farm customers include – Vopak, Oiltanking and Emarat.

Offshore & Maritime

SchuF Fetterolf has been chosen for several offshore projects. Used around compressors on oil platforms and oil refining and processing ships, the Cam-Slide and Stacey are ideal due to their ability to provide higher pressure ratings and/or large sizes up to 54".

The high quality construction and safety standards of the Cam-Slide and Stacey are greatly respected in this industry, especially as they are easy to operate in stormy weather.

The special maritime Cam-Set/Slide has been installed by many marine, engineering and shipping companies including: Chevron Marine, Modec, Exxon, Pratt & Whitney, BP, Hyundai, Samsung and Ocean Ships to name a few.

Steel Industry

A rugged sturdy design and absolute safe shut off are critical factors for the steel industry. Line blinds installed in and around coke oven gas and blast furnace fuel lines have to be absolutely secure despite tremendous pressure on the blinds.

The SchuF Fetterolf Cam-Set is ideal for these applications due to its attention to safety factors. The spectacle plate thickness is specified to exceed API standards, there are two o-rings sealing the plate and the body bolts are tack welded to ensure that they are not removed due to operator error. These features have led steel mill customers such as Kobe Steel USA, Corus, AK Steel Corporation, Arcelor Mittal, Tata and others to choose SchuF Fetterolf.

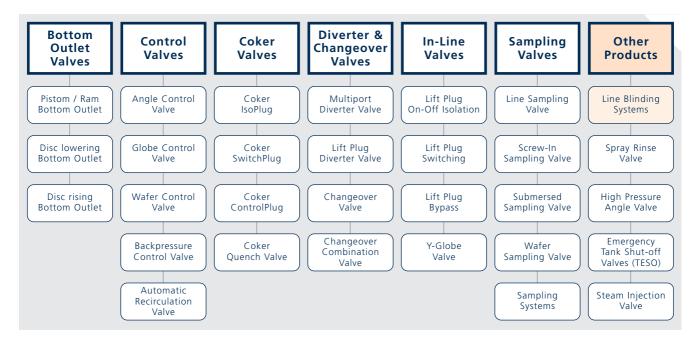


SchuF Fetterolf Valve Portfolio

SchuF Fetterolf has delivered over one million valves during its 100 year history to a wide variety of industries in over 50 countries worldwide.

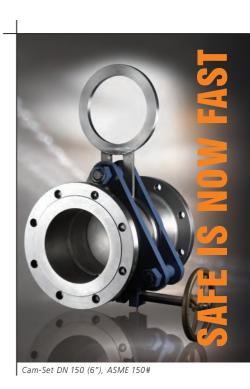
Headquartered near Frankfurt in Germany, the company has additional design and manufacturing centres in India, Ireland, Italy, the UK and the USA.

The SchuF group has sales and agent offices covering almost every country in the world. We manufacture valve products that control, isolate, divert, and sample liquids, gases, powders, and slurries. Our product range of engineered, customised valves includes:



Sample Cam-Set®, Cam-Slide® and Stacey™ Client List:

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