

THOMSEN

PRODUCT LINE

CLAMPS AND FITTINGS

CLAMP



BS



SBW



TUBE OD



FILTERS AND STRAINERS



Thomsen filters and strainers are constructed from either type 304 or 316 stainless steel and polished to a smooth, clean sanitary finish. Filters and strainers are available in both inline and side inlet designs. Filters and strainers are made in three standard lengths with 1 1/2" through 3" clamp and bevel seat connections. Special connections are available for various applications. They are available with 1/4, 1/8, or 1/16 inch holes or overscreens are available in various mesh/micron sizes.

VALVES / STORAGE TRUCK AND TANK



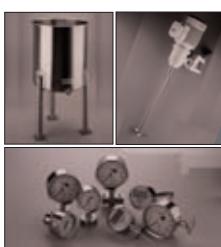
Thomsen is the leader in the manufacture of sanitary tanker and tank valves used throughout the world. We also manufacture a full line of farm tank valves, plug valves, sample, check and kettle valves in both 304SS or 316SS. Most valves are available with clamp or bevel seat connections from 1" through 4" sizes with a variety of elastomers.

BUTTERFLY VALVES



Thomsen butterfly valves are efficient, economical and ideal for use with a wide variety of media. Available in 304SS or 316SS, the valves can be manually or air operated. Manual styles feature a 2-position or multi-position handle to regulate product flow. Air-actuated units are available with or without control tops. Butterfly valves can also be obtained with a new leak detection system which can detect any leakage and avoid mixing of products.

TANKS, AGITATORS AND GAUGES



Thomsen's stainless steel tanks and pressure vessels can be manufactured in virtually any shape or size up to 5,000 gallon capacities. Available for either sanitary or non-sanitary applications, *Thomsen* offers custom quality design and manufacturer to meet any need.

Thomsen's standard range of agitators can be used for a wide variety of blending and agitating applications for small and medium sized tanks, and with viscosities up to 4000 cP. Agitators are available either portable clamp mounted, or permanent flange mounted.

Thomsen's line of sanitary gauges and thermometers are built to withstand the strict requirements of the industry. All sanitary pressure gauges, homogenizer, pharmaceutical and digital thermometers are available in a wide variety of ranges and adapters to fit any application.



THOMSEN

PRODUCT LINE

SPECIALS



Thomsen's transverters offer users a low-cost highly efficient means of manually changing product flow. Transverters permit change overs in just one minute and are available with any style of connections.

Thomsen's product recovery systems are designed to save you money by recovering product throughout your system which would normally be lost.

Also available are sight glasses, swivel joints, butterfat samplers as standards. Whatever the type or style of special needed, *Thomsen* has the engineering and manufacturing capabilities to handle your special requirement.

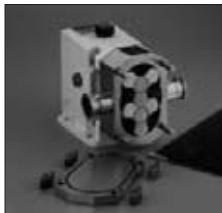
CENTRIFUGAL PUMPS



Thomsen is the name to turn to when you need a quality economical stainless steel sanitary centrifugal pump. There are four models to choose from with flows up to 500 gpm. The clamp head design permits 360 degree outlet rotation. An investment cast four blade impeller delivers a smooth steady flow. Internal, external and special seal combinations are available.

What's more, *Thomsen* stocks a complete inventory of pump parts for quick delivery and service.

POSITIVE DISPLACEMENT PUMPS



Thomsen's new SLR-Series Positive Displacement Pumps have been designed specially for the food, dairy, pharmaceutical and related industries which comply with the most stringent hygienic requirements. Available in horizontal or vertical head designs, the SLR-series PD pumps can be cleaned and maintenance effected in place (CIP and MIP). The ruggedness of the gearbox and the short shafts are resistant to deflection, and allow the pump to work at high pressure without need of support front bushings.

The new SLR-Positive Displacement Pumps offer low noise, high efficiency, diverse connections, compact construction, and many other advantages found over other PD pumps. With many models to choose from, *Thomsen* has the right PD pump for your application.

Thomsen is one of the oldest and most highly respected names in the dairy industry. All *Thomsen* products have been tried and tested throughout the world in sanitary applications. We carry a complete line of sanitary valves and fittings of the most advanced design . . . all of polished stainless steel . . . all precision made to strict specifications and with the 3A authorization.

We also specialize in making sanitary products tailored to your needs in the dairy, food and beverage industries.

Call us today. Many products are stock items which we can deliver immediately.



WARRANTY

Thomsen® warrants only to the original purchaser that product of *Thomsen*® manufacture is free from defects in material and workmanship for a period of one (1) year from the date of shipment, provided the product is used in normal use, in a manner and as recommended and in accordance with recognized sanitary equipment practices, and providing it has not been worn out due to severe service, such as encountered under extremely corrosive or abrasive conditions.

This warranty is expressly in lieu of any other warranties, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or otherwise.

Purchaser's sole and exclusive remedy and *Thomsen*®'s maximum liability for claims arising hereunder or for negligence for any and all losses and damages resulting from any cause shall be either the repair or replacement of defective items or, at *Thomsen*®'s option, the refund of the purchase price for such items. In no event, including in the case of a claim for negligence, shall *Thomsen*® be liable for incidental or consequential damages, including loss of profits. **In no event shall the liability of *Thomsen*® be greater than the sale price of the product.**

All claims must be in writing and must be mailed or delivered by purchaser within thirty (30) days after purchaser learns of the facts upon which such claim is based. Any claim not made in writing and within the time period specified above shall be deemed waived. Purchaser has thirty (30) days to return product after *Thomsen*® notifies purchaser that it is exercising its option to accept return.

RETURNED GOODS POLICY:

All returned merchandise must have a *Thomsen*® RGA (Returned Goods Authorization) number. RGA numbers are assigned only by *Thomsen*® inside sales representatives and merchandise returned must correspond with items authorized. Returns must be made within 30 days of receipt of RGA.

Unauthorized returns will not be accepted by *Thomsen*® receiving department and returned freight collect. A 20% restocking charge (20% of the net invoice price) will be charged for saleable merchandise in new condition returned in original packaging. If merchandise is not in new condition, a reconditioning charge will be deducted from the credit. Merchandise not of *Thomsen*® manufacture or specials are not eligible for return.

Freight is to be prepaid. No collect shipments will be accepted.

TERMS:

30 days net.

Terms and conditions are subject to change without notice.

THOMSEN

Quality stainless steel flow equipment.



BEVEL SEAT FITTINGS

Bevel Seat

For over 60 years, L. C. Thomsen has been supplying high quality products to the dairy, food and beverage industry. When you think of THOMSEN, three words come to mind: excellence, quality and teamwork.

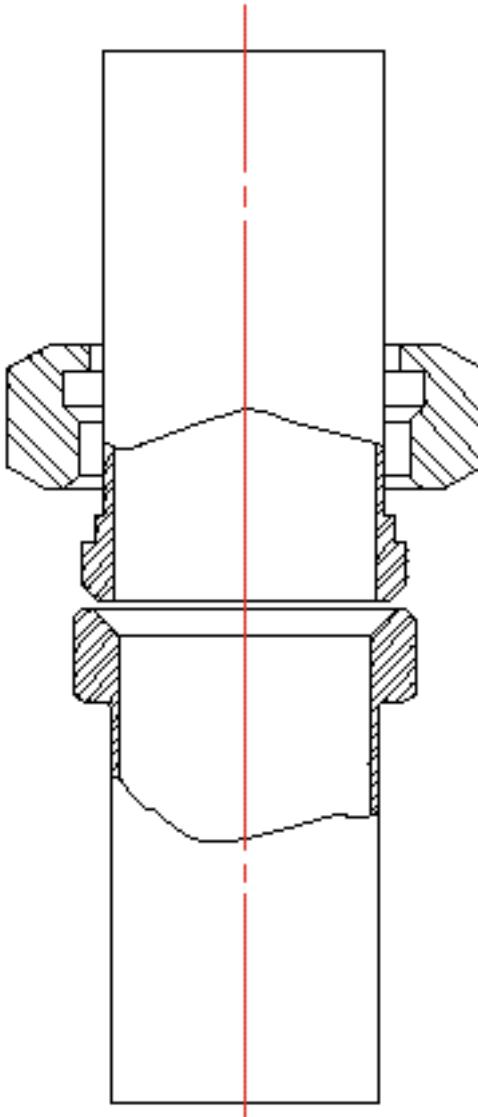
Excellence and quality are best achieved through teamwork and a shared vision. At THOMSEN we strive to:

- Manufacture the finest quality sanitary equipment in the marketplace.
- Deliver on time.
- Concentrate on customer care.
- Provide the lowest cost possible.

These widely used sanitary fittings are manufactured from both T-304 and T-316 stainless steel. It is a union-nut assembly with sanitary acme threads. Bevel seat fittings provide a secure sanitary joint, fully approved and meeting 3A Standards.

Bevel seat fittings are available in 1" through 4" sizes and they are available in a variety of finishes.

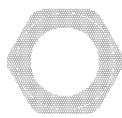
When you need sanitary fittings, there is only one name to remember. THOMSEN, the trusted name for sanitary fittings, pumps and valves for the dairy, food and beverage industries for over 60 years.



3A authorized



THOMSEN

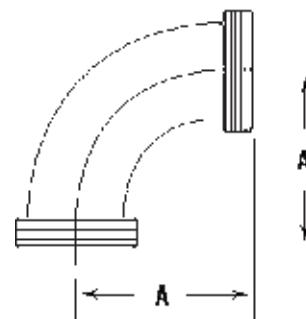


BEVEL SEAT FIT-

90° SWEEP ELL

PART NO.	TUBE SIZE	A
6099	1	2
6100	1 1/2	2 7/8
6101	2	3 23/32
6102	2 1/2	4 27/32
6103	3	5 29/32
6104	4	8 1/16

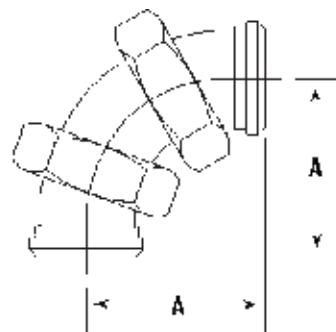
2C



90° SWEEP ELL

PART NO.	TUBE SIZE	A
6115	1	2
6116	1 1/2	2 7/8
6117	2	3 23/32
6118	2 1/2	4 27/32
6119	3	5 29/32
6120	4	8 1/16

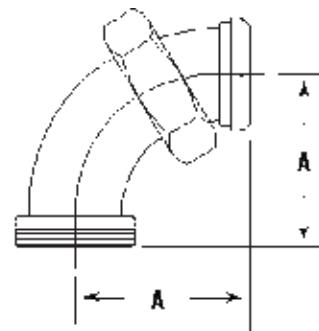
2E



90° SWEEP ELL

PART NO.	TUBE SIZE	A
6123	1	2
6124	1 1/2	2 7/8
6125	2	3 23/32
6126	2 1/2	4 27/32
6127	3	5 29/32
6128	4	8 1/16

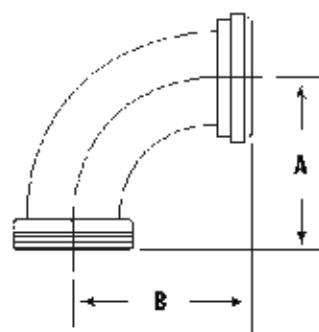
2F



90° CONCENTRIC REDUCING ELL

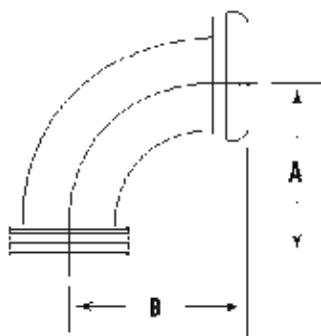
PART NO.	TUBE SIZE	A	B
6139	1 1/2 x 1	2 7/32	2 3/16
6140	2 x 1	2 7/32	2 3/16
6141	2 x 1 1/2	2 31/32	3
6143	2 1/2 x 1 1/2	2 31/32	3
6144	2 1/2 x 2	3 3/4	3 27/32
6147	3 x 2	3 3/4	3 27/32
6148	3 x 2 1/2	4 5/8	4 19/32
6152	4 x 2 1/2	4 5/8	4 19/32
6153	4 x 3	5 13/32	5 13/32

2F-31



BEVEL SEAT FITTINGS

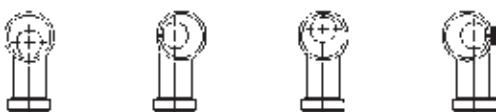
2F-32



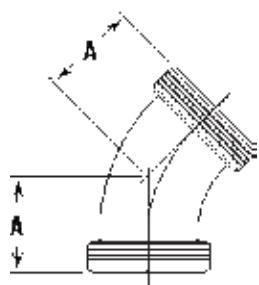
90° ECCENTRIC REDUCING ELL

PART NO.	TUBE SIZE	A	B
6173	1 1/2 x 1	2 7/32	2 3/16
6174	2 x 1	2 7/32	2 3/16
6175	2 x 1 1/2	3 31/32	3
6177	2 1/2 x 1 1/2	2 31/32	3
6178	2 1/2 x 2	3 3/4	3 27/32
6181	3 x 2	3 3/4	3 27/32
6182	3 x 2 1/2	4 5/8	4 19/32
6186	4 x 2 1/2	4 5/8	4 19/32
6187	4 x 3	5 13/32	5 13/32

CODES: OA - 12:00 OB - 3:00 OC - 6:00 OD - 9:00



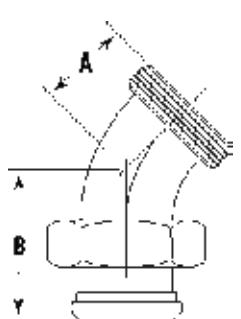
2K



45° SWEEP ELL

PART NO.	TUBE SIZE	A
6508	1	1 5/16
6509	1 1/2	1 23/32
6510	2	2 1/8
6511	2 1/2	2 5/8
6512	3	3 1/8
6513	4	4 1/4

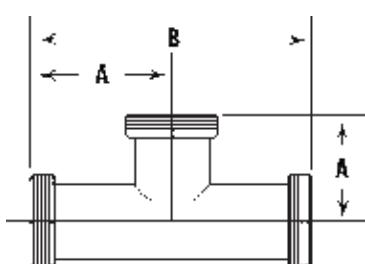
2P



45° SWEEP ELL

PART NO.	TUBE SIZE	A	B
6516	1	1 5/16	2 1/8
6517	1 1/2	1 23/32	2 1/8
6518	2	2 1/8	2 5/16
6519	2 1/2	2 5/8	2 9/16
6520	3	3 1/8	2 29/32
6521	4	4 1/4	3 7/8

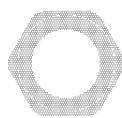
7



TEE

PART NO.	TUBE SIZE	A	B
7026	1	1 13/16	3 5/8
7027	1 1/2	2 3/8	4 3/4
7028	2	2 25/32	5 9/16
7029	2 1/2	3 3/16	6 3/8
7030	3	3 1/2	7
7031	4	4 21/32	9 5/16

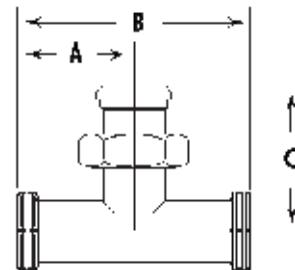
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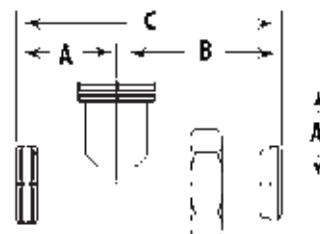
BEVEL SEAT FITTINGS

TEE
7A

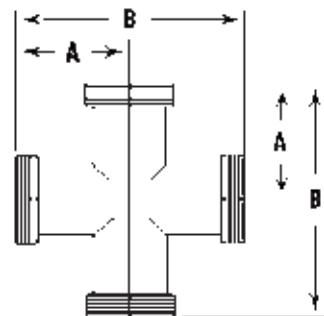
PART NO.	TUBE SIZE	A	B	C
7034	1	1 13/16	3 5/8	2 11/16
7035	1 1/2	2 3/8	4 3/4	3 13/32
7036	2	2 25/32	5 9/16	3 13/16
7037	2 1/2	3 3/16	6 3/8	4 1/4
7038	3	3 1/2	7	4 5/8
7039	4	4 21/32	9 5/16	6 1/8


TEE
7B

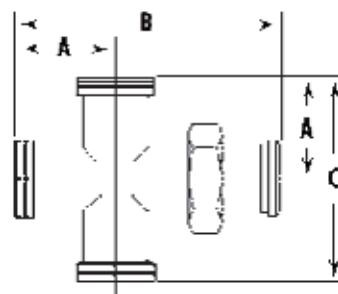
PART NO.	TUBE SIZE	A	B	C
7042	1	1 13/16	2 11/16	4 1/2
7043	1 1/2	2 3/8	3 13/32	5 25/32
7044	2	2 25/32	3 13/16	6 19/32
7045	2 1/2	3 3/16	4 1/4	7 7/16
7046	3	3 1/2	4 5/8	8 1/8
7047	4	4 21/32	6 1/8	10 25/32


CROSS
9

PART NO.	TUBE SIZE	A	B
7526	1	1 13/16	3 5/8
7527	1 1/2	2 3/8	4 3/4
7528	2	2 25/32	5 9/16
7529	2 1/2	3 3/16	6 3/8
7530	3	3 1/2	7
7531	4	4 21/32	9 5/16

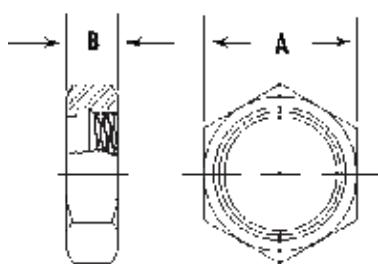

CROSS
9A

PART NO.	TUBE SIZE	A	B	C
7534	1	1 13/16	4 1/2	3 5/8
7535	1 1/2	2 3/8	5 25/32	4 3/4
7536	2	2 25/32	6 19/32	5 9/16
7537	2 1/2	3 3/16	7 7/16	6 3/8
7538	3	3 1/2	8 1/8	7
7539	4	4 21/32	10 25/32	9 5/16



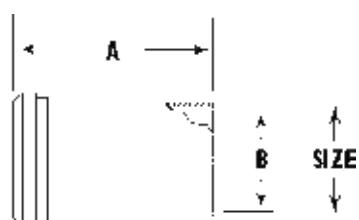
BEVEL SEAT FITTINGS

13 H



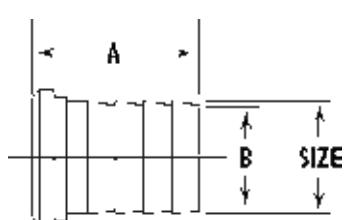
PART NO.	TUBE SIZE	A	B
2230	1	1 13/16	2 9/32
2231	1 1/2	2 13/32	3 1/32
2232	2	3	1 1/16
2233	2 1/2	3 19/32	1 3/16
2234	3	4 3/16	1 9/32
2235	4	5 27/64	1 1/2

14 A



PLAIN TUBE FERRULE			
PART NO.	TUBE SIZE	A	B
2270	1	1 3/8	.870
2271	1 1/2	1 1/2	1.370
2272	2	1 1/2	1.870
2273	2 1/2	1 3/4	2.370
2274	3	1 3/4	2.870
2275	4	1 3/4	3.834

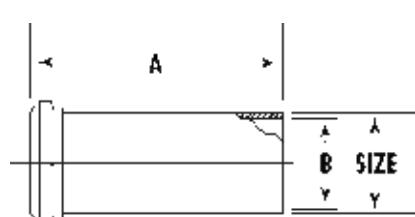
14 AHR



RUBBER HOSE ADAPTER			
PART NO.	TUBE SIZE	A	B
2570	1	1 13/16	.870
2575	1 1/2	1 13/16	1.370
2580	2	2 1/8	1.870
2581	2 1/2	2 1/4	2.370
2582	3	2 1/4	2.870
2583	4	2 5/8	3.834

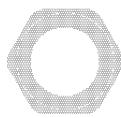
REDUCING SIZES AVAILABLE UPON REQUEST

14 AHT



TYGON HOSE ADAPTER			
PART NO.	TUBE SIZE	A	B
2676	1	4 11/16	.870
2681	1 1/2	4 11/16	1.370
2685	2	4 3/4	1.870
2687	2 1/2	4 7/8	2.370
2690	3	4 29/32	2.870
2691	4	5	3.834

REDUCING SIZES AVAILABLE UPON REQUEST

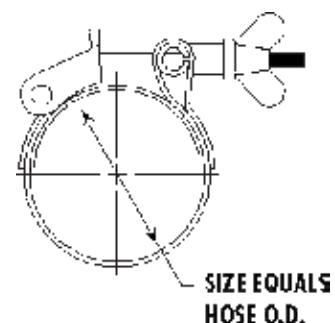


BEVEL SEAT FITTINGS

HOSE CLAMP

PART NO.	SIZE	PART NO.	SIZE
3550	1	3557	2 3/4
3551	1 1/4	3558	3
3553	1 1/2	3559	3 1/2
3554	2	3560	4
3555	2 1/4	3561	4 1/2
3556	2 1/2	3564	2 3/8

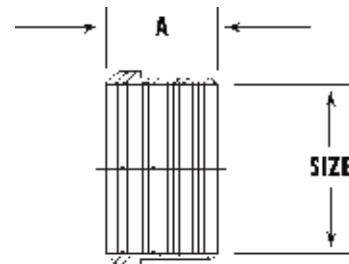
T14 HC



PLAIN RECESSLESS FERRULE

14 R

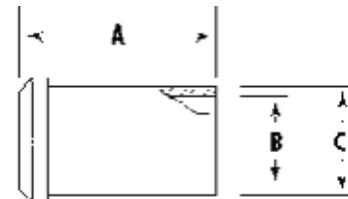
PART NO.	TUBE SIZE	A
2440	1	3/4
2441	1 1/2	1 1/8
2442	2	1 5/16
2443	2 1/2	1 3/8
2444	3	1 7/16
2445	4	1 1/2



PLAIN FERRULE TANK SPUD (HEAVY WALL)

14 W

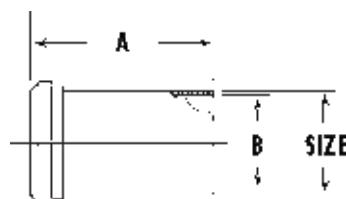
PART NO.	TUBE SIZE	A	B	C
2520	1	2 3/8	.870	1 5/32
2521	1 1/2	2 17/32	1.370	1 43/64
2522	2	2 25/32	1.870	2 3/16
2523	2 1/2	3 1/16	2.370	2 45/64
2524	3	3 17/32	2.870	3 7/32
2525	4	4 5/16	3.834	4 1/4



PLAIN FERRULE TANK SPUD (LIGHT WALL)

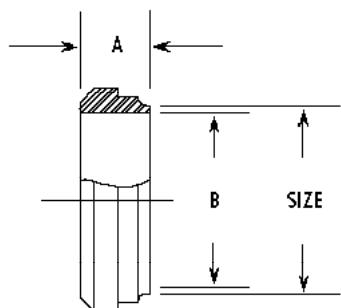
14 WL

PART NO.	TUBE SIZE	A	B
2534	1	2	.870
2535	1 1/2	2 1/4	1.370
2536	2	2 1/2	1.870
2537	2 1/2	2 3/4	2.370
2538	3	3	2.870
2539	4	4	3.834



BEVEL SEAT FITTINGS

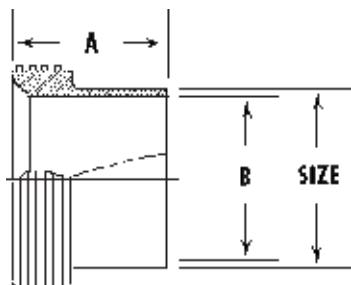
14 WS



PLAIN FERRULE WELD

PART NO.	TUBE SIZE	A	B
2130	1	2 3/32	.870
2131	1 1/2	2 3/32	1.370
2132	2	3/4	1.870
2133	2 1/2	7/8	2.370
2134	3	29/32	2.870
2136	4	1 1/32	3.834

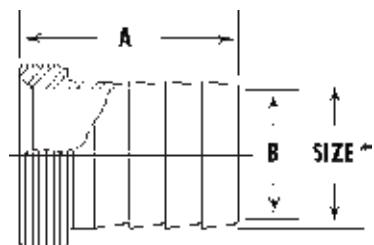
15 A



THREADED TUBE FERRULE

PART NO.	TUBE SIZE	A	B
2657	1	1 3/8	.870
2658	1 1/2	1 1/2	1.370
2659	2	1 1/2	1.870
2660	2 1/2	1 3/4	2.370
2661	3	1 3/4	2.870
2662	4	1 3/4	3.834

15 AHR

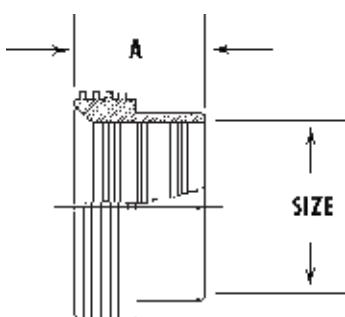


RUBBER HOSE ADAPTER

PART NO.	TUBE SIZE	A	B
2611	1	1 27/32	.870
2616	1 1/2	1 27/32	1.370
2621	2	2 1/8	1.870
2622	2 1/2	2 1/4	2.370
2623	3	2 9/32	2.870
2624	4	2 5/8	3.834

*SAME AS I.D. OF HOSE

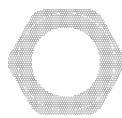
15 R



THREADED RECESSLESS FERRULE

PART NO.	TUBE SIZE	A
2482	1	1 3/16
2483	1 1/2	1 1/8
2484	2	1 3/8
2485	2 1/2	1 1/2
2486	3	1 5/8
2487	4	1 5/8

15 AHR

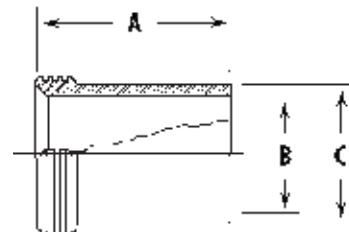


BEVEL SEAT FITTINGS

THREADED FERRULE TANK SPUD (HEAVY WALL)

PART NO.	TUBE SIZE	A	B	C
2490	1	1 1/2	.870	1 1/4
2491	1 1/2	1 5/8	1.370	1 3/4
2492	2	1 3/4	1.870	2 5/16
2493	2 1/2	1 3/4	2.370	2 7/8
2494	3	1 13/16	2.870	3 3/8
2495	4	2 1/8	3.834	4 1/4

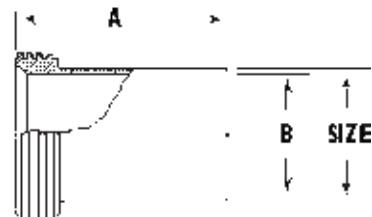
15 W



THREADED FERRULE TANK SPUD (LIGHT WALL)

PART NO.	TUBE SIZE	A	B
2506	1	2	.870
2507	1 1/2	2 1/4	1.370
2508	2	2 1/2	1.870
2509	2 1/2	2 3/4	2.370
2510	3	3	2.870
2511	4	4	3.834

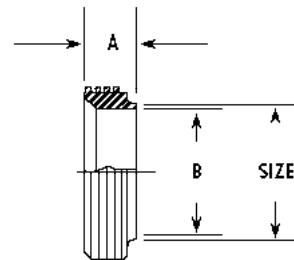
15 WL



THREADED FERRULE WELD

PART NO.	TUBE SIZE	A	B
2090	1	23/32	.870
2091	1 1/2	23/32	1.370
2093	2	3/4	1.870
2094	2 1/2	7/8	2.370
2095	3	29/32	2.870
2097	4	1 13/32	3.834

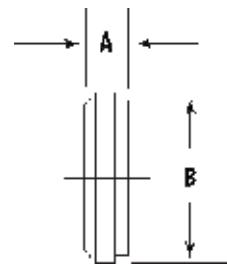
15 WS



CAP

PART NO.	TUBE SIZE	A	B
2310	1	15/32	1 5/16
2311	1 1/2	9/16	1 27/32
2312	2	5/8	2 3/8
2313	2 1/2	21/32	2 29/32
2314	3	23/32	3 7/16
2315	4	13/16	4 1/2

16 A

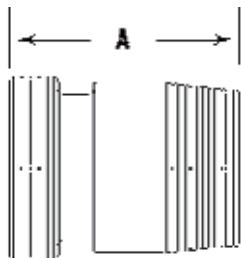


ALSO AVAILABLE AS 23 B THERMOMETER CAP TAPPED N.P.T.



BEVEL SEAT FITTINGS

21

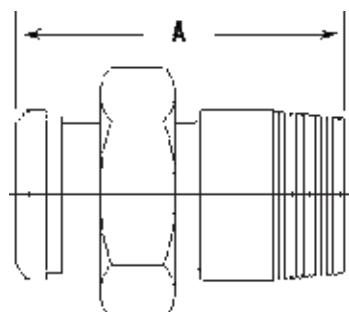


*May vary in length

PIPE ADAPTER MALE SANITARY ACME THREAD TO MALE NPT

PART NO.	TUBE SIZE	A*
5757	1 x 3/4	2 13/32
5758	1 x 1	2 15/32
5760	1 x 1 1/2	2 15/32
5761	1 x 2	2 15/32
5763	1 1/2 x 3/4	2 15/32
5764	1 1/2 x 1	2 19/32
5766	1 1/2 x 1 1/2	2 15/32
5770	2 x 1 1/2	2 29/32
5771	2 x 2	2 9/16
5774	2 1/2 x 1 1/2	3 7/32
5775	2 1/2 x 2	3 11/32
5776	2 1/2 x 2 1/2	3 1/2
5778	3 x 2	3 5/16
5780	3 x 3	3 13/32
5782	4 x 4	3 19/32

21 F

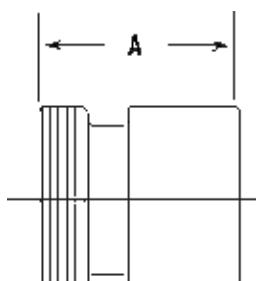


*May vary in length

PIPE ADAPTER HEX NUT TO MALE NPT

PART NO.	TUBE SIZE	A*
5732	1	3 1/16
5738	1 1/2	3 3/8
5742	2	3 13/16
5745	2 1/2	4 3/4
5748	3	4 15/32
5750	4	5 11/32

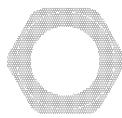
22



*May vary in length

PIPE ADAPTER MALE SANITARY ACME TO FEMALE NPT

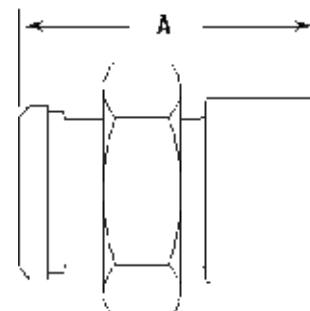
PART NO.	TUBE SIZE	A*
5819	1	1 3/4
5827	1 1/2	1 15/16
5832	2	2 5/32
5837	2 1/2	2 9/32
5841	3	2 15/32
5843	4	2 15/32
5818	1 x 3/4	1 9/16
5821	1 x 1 1/2	1 9/16
5822	1 x 2	1 9/16
5824	1 1/2 x 3/4	1 11/16
5825	1 1/2 x 1	1 11/16
5831	2 x 1 1/2	1 13/16
5835	2 1/2 x 1 1/2	1 15/16
5836	2 1/2 x 2	1 15/16
5839	3 x 2	2 1/16



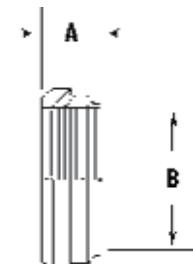
BEVEL SEAT FITTINGS

PIPE ADAPTER HEX NUT TO FEMALE NPT
22 F

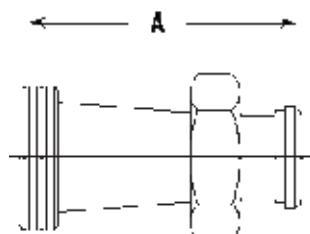
PART NO.	TUBE SIZE	A*
5788	1	2 3/4
5796	1 1/2	3 7/32
5801	2	3 5/8
5807	2 1/2	3 15/16
5811	3	4 1/4
5813	4	4 11/16


**May vary in length*
CONCENTRIC RECESSLESS REDUCING FERRULE
31 R

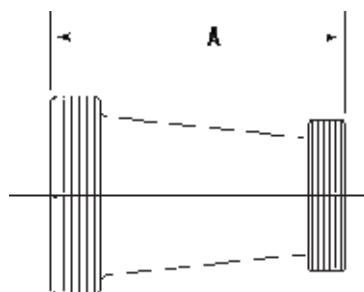
PART NO.	TUBE SIZE	A	B
2448	1 1/2 x 1	9/16	1
2449	2 x 1	5/8	1
2450	2 x 1 1/2	23/32	1 1/2
2452	2 1/2 x 1 1/2	21/32	1 1/2
2453	2 1/2 x 2	1	2
2456	3 x 2	1	2
2457	3 x 2 1/2	1 1/8	2 1/2
2461	4 x 2 1/2	1 1/8	2 1/2
2462	4 x 3	1 1/4	3


CONCENTRIC TAPER REDUCER MALE SANITARY ACME TO HEX NUT
31 TP

PART NO.	TUBE SIZE	A
8150	1 1/2 x 1	4 1/16
8151	2 x 1	6 1/8
8152	2 x 1 1/2	4 1/4
8153	2 1/2 x 1 1/2	6 3/8
8154	2 1/2 x 2	4 3/8
8156	3 x 2	6 3/8
8157	3 x 2 1/2	4 5/8
8160	4 x 2 1/2	8 3/4
8161	4 x 3	6 3/4

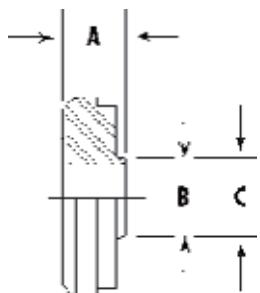

CONCENTRIC TAPER REDUCER MALE SANITARY ACME BOTH ENDS
31 TT

PART NO.	TUBE SIZE	A
8165	1 1/2 x 1	3 7/16
8166	2 x 1	5 15/32
8167	2 x 1 1/2	3 15/32
8168	2 1/2 x 1 1/2	5 19/32
8169	2 1/2 x 2	3 5/8
8171	3 x 2	5 21/32
8172	3 x 2 1/2	3 3/4
8175	4 x 2 1/2	7 29/32
8176	4 x 3	5 15/16



BEVEL SEAT FITTINGS

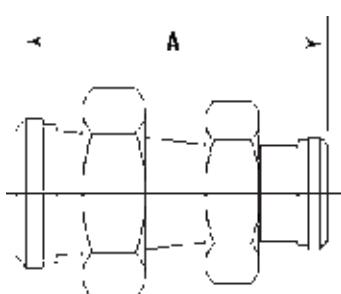
31 WS



CONCENTRIC REDUCING WELD FERRULE

PART NO.	TUBE SIZE	A	B	C
2145	1 1/2 x 1	1 1/16	.870	1 1/32
2147	2 x 1	1 1/16	.870	1 1/32
2148	2 x 1 1/2	3/4	1.370	1 17/32
2150	2 1/2 x 1 1/2	3/4	1.370	1 17/32
2151	2 1/2 x 2	27/32	1.870	2 1/32
2154	3 x 2	27/32	1.870	2 1/32
2155	3 x 2 1/2	27/32	2.370	2 17/32
2159	4 x 2 1/2	27/32	2.370	2 17/32
2160	4 x 3	29/32	2.870	3 1/32

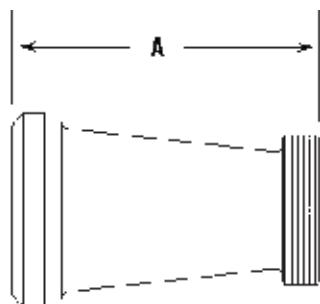
31-14F



CONCENTRIC TAPER REDUCER NUT BOTH ENDS

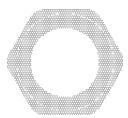
PART NO.	TUBE SIZE	A
8180	1 1/2 x 1	4 1/16
8181	2 x 1	6 1/8
8182	2 x 1 1/2	4 1/4
8184	2 1/2 x 1 1/2	6 3/8
8185	2 1/2 x 2	4 3/8
8188	3 x 2	6 3/8
8189	3 x 2 1/2	4 5/8
8193	4 x 2 1/2	8 3/4
8194	4 x 3	6 3/4

31-15F



CONCENTRIC TAPER REDUCER PLAIN FERRULE TO MALE ACME THREAD

PART NO.	TUBE SIZE	A
8196	1 1/2 x 1	3 7/16
8197	2 x 1	5 15/32
8198	2 x 1 1/2	3 15/32
8200	2 1/2 x 1 1/2	5 19/32
8201	2 1/2 x 2	3 5/8
8203	3 x 2	5 21/32
8204	3 x 2 1/2	3 3/4
8207	4 x 2 1/2	7 29/32
8208	4 x 3	5 15/16

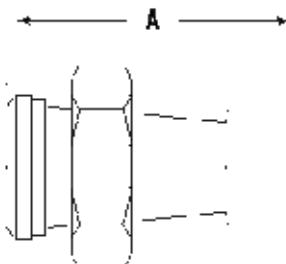


BEVEL SEAT FITTINGS

CONCENTRIC TAPER ADAPTER NUT TO FEMALE NPT

31-18F

PART NO.	TUBE SIZE	A*
8211	1 1/2 x 1	2 13/16
8212	2 x 1	5 29/32
8213	2 x 1 1/2	4 1/2
8214	2 1/2 x 1 1/2	6 1/32
8215	2 1/2 x 2	4 15/32
8216	3 x 2	6 1/32
8217	3 x 2 1/2	4 11/32
8218	4 x 2 1/2	8 7/16
8219	4 x 3	6 7/16

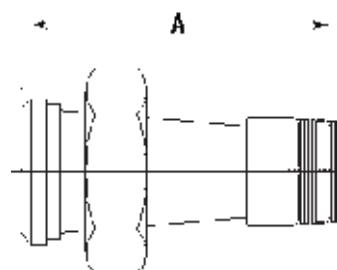


*May vary in length

CONCENTRIC TAPER ADAPTER NUT TO MALE NPT

31-19F

PART NO.	TUBE SIZE	A*
8226	1 1/2 x 1	4 1/16
8227	2 x 1	6 21/32
8228	2 x 1 1/2	4 29/32
8229	2 1/2 x 1 1/2	6 23/32
8230	2 1/2 x 2	5 1/16
8231	3 x 2	7 1/8
8232	3 x 2 1/2	5 1/16
8233	4 x 2 1/2	9 21/32
8234	4 x 3	7 23/32

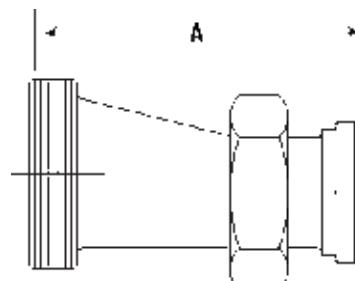


*May vary in length

ECCENTRIC TAPER REDUCER MALE ACME TO NUT

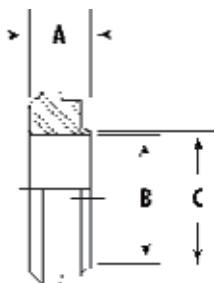
32 TP

PART NO.	TUBE SIZE	A
8241	1 1/2 x 1	4 1/16
8242	2 x 1	6 1/8
8243	2 x 1 1/2	4 1/4
8244	2 1/2 x 1 1/2	6 3/8
8245	2 1/2 x 2	4 3/8
8247	3 x 2	6 3/8
8248	3 x 2 1/2	4 5/8
8251	4 x 2 1/2	8 3/4
8252	4 x 3	6 3/4



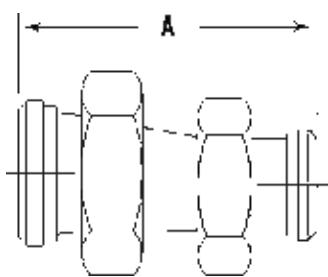
BEVEL SEAT FITTINGS

32 WS



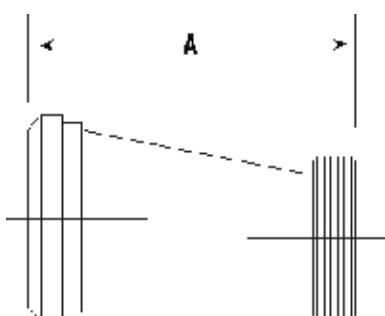
PART NO.	TUBE SIZE	A	B	C
2550	1 1/2 x 1	1 1/16	.870	1
2551	2 x 1	1 1/16	.870	1
2552	2 x 1 1/2	3/4	1.370	1 1/2
2554	2 1/2 x 1 1/2	3/4	1.370	1 1/2
2555	2 1/2 x 2	27/32	1.870	2
2558	3 x 2	27/32	1.870	2
2559	3 x 2 1/2	27/32	2.370	2 1/2
2563	4 x 2 1/2	27/32	2.370	2 1/2
2564	4 x 3	29/32	2.870	3

32-14F

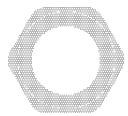


PART NO.	TUBE SIZE	A
8255	1 1/2 x 1	4 1/16
8256	2 x 1	6 1/8
8257	2 x 1 1/2	4 1/4
8259	2 1/2 x 1 1/2	6 3/8
8260	2 1/2 x 2	4 3/8
8262	3 x 2	6 3/8
8263	3 x 2 1/2	4 5/8
8266	4 x 2 1/2	8 3/4
8267	4 x 3	6 3/4

32-15F



PART NO.	TUBE SIZE	A
8270	1 1/2 x 1	3 7/16
8271	2 x 1	5 15/32
8272	2 x 1 1/2	3 15/32
8274	2 1/2 x 1 1/2	5 19/32
8275	2 1/2 x 2	3 5/8
8277	3 x 2	5 21/32
8278	3 x 2 1/2	3 3/4
8281	4 x 2 1/2	7 29/32
8282	4 x 3	5 15/16



BEVEL SEAT FITTINGS

GASKET BS

40 BS

PART NO.	TUBE SIZE
3360-*0	1
3361-*0	1 1/2
3362-*0	2
3363-*0	2 1/2
3364-*0	3
3365-*0	4

*AVAILABLE IN BUNA, VITON AND TEFLO

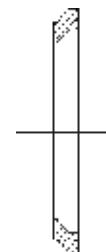


GASKET BS (HEAVY DUTY)

40 BSB

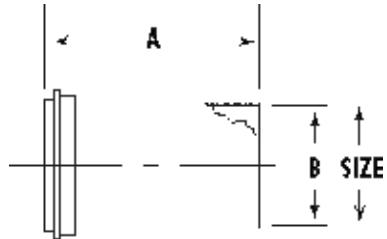
PART NO.	TUBE SIZE
3360-*X	1
3361-*X	1 1/2
3362-*X	2
3363-*X	2 1/2
3364-*X	3
3365-*X	4

*AVAILABLE IN BUNA, VITON AND TEFLO



14A JP

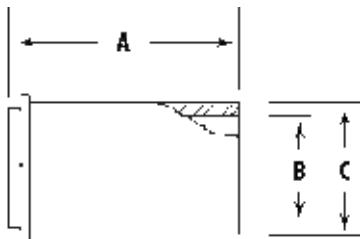
PLAIN TUBE FERRULE JP



PART NO.	TUBE SIZE	A	B
2648	1	1 3/8	.870
2649	1 1/2	1 1/2	1.370
2650	2	1 1/2	1.870
2651	2 1/2	1 3/4	2.370
2652	3	1 3/4	2.870
2653	4	1 3/4	3.834

14W JP

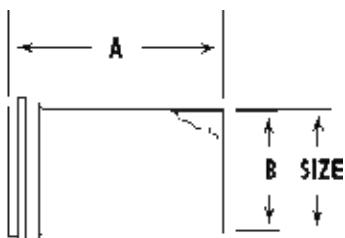
PLAIN FERRULE TANK SPUD (HEAVY WALL) JP



PART NO.	TUBE SIZE	A	B	C
2527	1	2 3/8	.870	1 5/32
2528	1 1/2	2 17/32	1.370	1 43/64
2529	2	2 25/32	1.870	2 3/16
2530	2 1/2	3 1/16	2.370	2 45/64
2531	3	3 17/32	2.870	3 7/32
2532	4	4 5/16	3.834	4 1/4

14WL JP

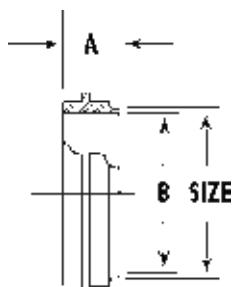
PLAIN FERRULE TANK SPUD (LIGHT WALL) JP



PART NO.	TUBE SIZE	A	B
2541	1	2	.870
2542	1 1/2	2 1/4	1.370
2543	2	2 1/2	1.870
2544	2 1/2	2 3/4	2.370
2545	3	3	2.870
2546	4	4	2.834

14WS JP

PLAIN FERRULE WELD JP



PART NO.	TUBE SIZE	A	B
2120	1	5/8	.870
2121	1 1/2	21/32	1.370
2122	2	21/32	1.870
2123	2 1/2	25/32	2.230
2124	3	13/16	2.870
2125	4	1 1/32	3.834

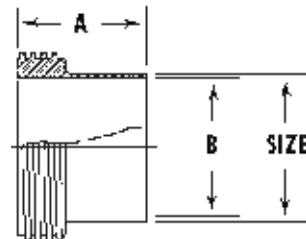


JOHN PERRY FITTINGS

THREADED TUBE FERRULE JP

15A JP

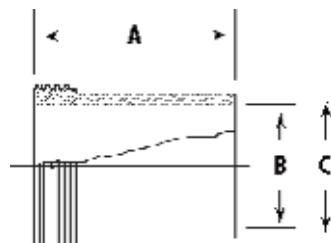
PART NO.	TUBE SIZE	A	B
2665	1	1 3/8	.870
2666	1 1/2	1 1/2	1.370
2667	2	1 1/2	1.870
2668	2 1/2	1 3/4	2.370
2669	3	1 3/4	2.870
2670	4	1 3/4	3.834



THREADED FERRULE TANK SPUD (HEAVY WALL) JP

15W JP

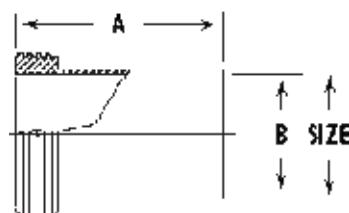
PART NO.	TUBE SIZE	A	B	C
2498	1	1 1/2	.870	1 1/4
2499	1 1/2	1 5/8	1.370	1 3/4
2500	2	1 3/4	1.870	2 5/16
2501	2 1/2	1 3/4	2.370	2 7/8
2502	3	1 13/16	2.870	3 3/8
2503	4	2 1/8	3.834	4 1/4



THREADED FERRULE TANK SPUD (LIGHT WALL) JP

15WL JP

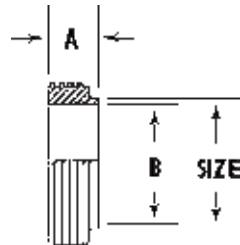
PART NO.	TUBE SIZE	A	B
2514	1	2	.870
2515	1 1/2	2 1/4	1.370
2516	2	2 1/2	1.870
2517	2 1/2	2 3/4	2.370
2518	3	3	2.870
2519	4	4	3.834



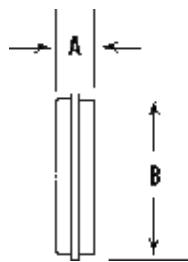
THREADED FERRULE WELD JP

15WS JP

PART NO.	TUBE SIZE	A	B
2100	1	1 1/16	.870
2101	1 1/2	1 1/16	1.370
2102	2	3/4	1.870
2103	2 1/2	2 7/32	2.370
2104	3	7/8	2.870
2105	4	1 1/32	3.834

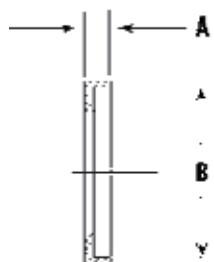


16A JP



PART NO.	TUBE SIZE	A	B
2204	1	15/32	1 5/16
2205	1 1/2	9/16	1 27/32
2206	2	5/8	2 3/8
2207	2 1/2	21/32	2 29/32
2208	3	23/32	3 7/16
2209	4	13/16	4 1/2

40 JP



PART NO.	TUBE SIZE	A	B
3344	1	1/4	1 1/4
3345	1 1/2	1/4	1 13/16
3346	2	9/32	2 5/16
3347	2 1/2	11/32	2 7/8
3348	3	11/32	3 3/8
3349	4	3/8	4 1/2

AVAILABLE IN BUNA, VITON AND TEFLO



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Quality stainless steel flow equipment.



CLAMP FITTINGS

Clamp Fittings

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- Manufacture the finest quality sanitary equipment in the marketplace.
- Deliver on time.
- Concentrate on customer care.
- Provide the lowest cost possible.

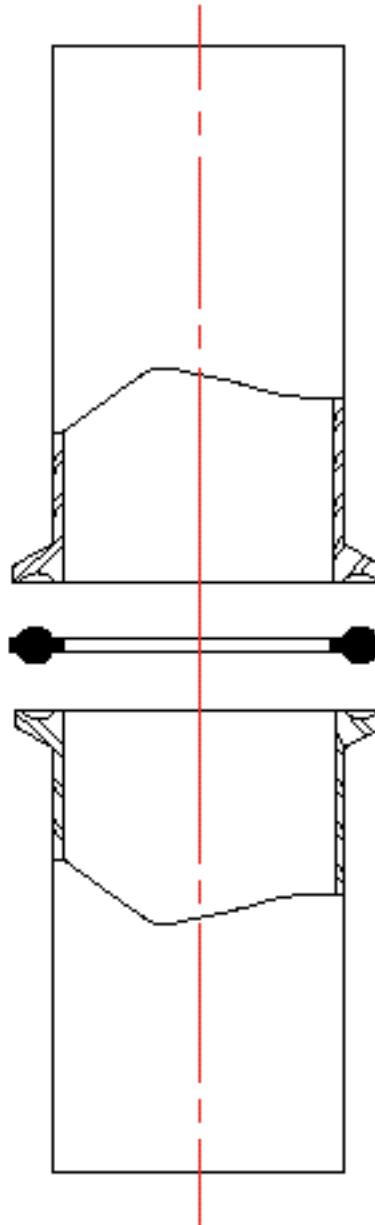
These widely used sanitary fittings are manufactured from both T-304 and T-316 stainless steel. It is a quick-couple assembly with a molded gasket, two flanged ferrules and a clamp. THOMSEN® clamp fittings provide a secure sanitary joint, fully approved and meeting 3A Standards.

THOMSEN® clamp fittings are available in 1" through 4" sizes and they are available in a variety of finishes.

When you need sanitary fittings, there is only one name to remember. THOMSEN®, the trusted name for sanitary fittings, pumps and valves for the dairy, food and beverage industries for over 60 years.

3A authorized 

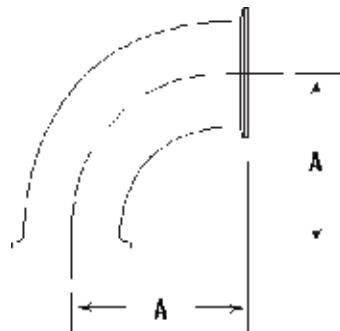




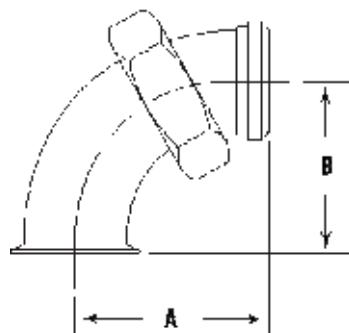
90° ELL

PART NO.	TUBE SIZE	A
6015	1	2
6016	1 1/2	2 3/4
6017	2	3 1/2
6018	2 1/2	4 1/2
6019	3	5
6020	4	6 5/8

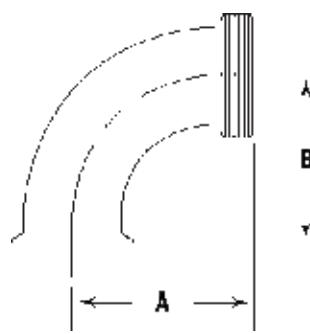
NOTE: ONE INCH FITTINGS USE 1 1/2" CLAMP ASSEMBLIES

TS/2C

90° ELL

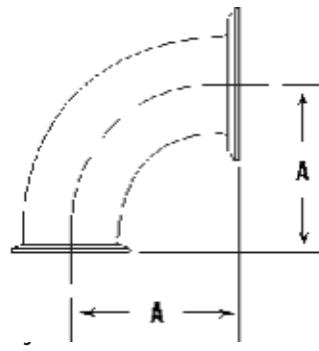
PART NO.	TUBE SIZE	A	B
6023	1 1/2	2 31/32	2 3/4
6024	2	3 3/4	3 1/2
6025	2 1/2	4 5/8	4 1/4
6026	3	5 13/32	5
6027	4	7	6 5/8

TS/2F-14

90° ELL

PART NO.	TUBE SIZE	A	B
6030	1 1/2	2 31/32	2 3/4
6031	2	3 3/4	3 1/2
6032	2 1/2	4 5/8	4 1/4
6033	3	5 13/32	5
6034	4	7	6 5/8

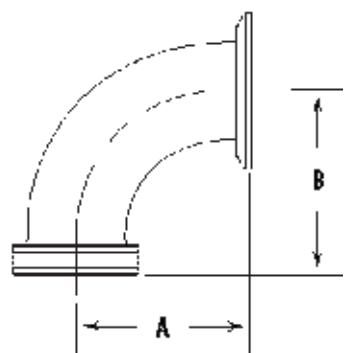
TS/2F-15

90° ELL

PART NO.	TUBE SIZE	A	B	C
6040	2	x		1
6041	2 1/2	x	2 3/4	1
6042	2 1/2 x 1/2	1	2 3/4	
6043	2 1/2 x	2	1/2	3
6044	3 1/2	x	2 3/4	1
6045	3	x	1/2	2
6046	3 1/2	x	4 1/4	2
6049	4 1/2	x	4 1/4	2
6050	4	x		3

TS/2C-31


CLAMP FITTINGS

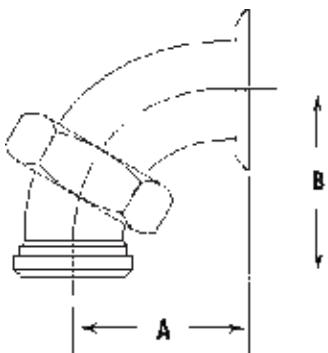
TS/31-2C



90° ADAPTER REDUCING CONCENTRIC

PART NO.	TUBE SIZE	A	B
6055	1 1/2 x 1	2	2 7/32
6056	2 x 1	2	2 7/32
6057	2 x 1 1/2	2 3/4	2 31/32
6058	2 1/2 x 1 1/2	2 3/4	2 31/32
6059	2 1/2 x 2	3 1/2	3 3/4
6061	3 x 2	3 1/2	3 3/4
6062	3 x 2 1/2	4 1/4	4 5/8
6065	4 x 2 1/2	4 1/4	4 5/8
6066	4 x 3	5	5 13/32

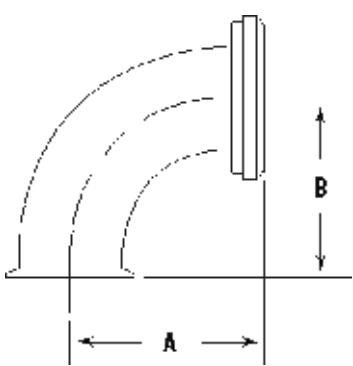
TS/31-2F



90° ADAPTER REDUCING CONCENTRIC CAPTIVE NUT

PART NO.	TUBE SIZE	A	B
6070	1 1/2 x 1	2	2 7/32
6071	2 x 1	2	2 7/32
6072	2 x 1 1/2	2 3/4	2 31/32
6073	2 1/2 x 1 1/2	2 3/4	2 31/32
6074	2 1/2 x 2	3 1/2	3 3/4
6076	3 x 2	3 1/2	3 3/4
6077	3 x 2 1/2	4 1/4	4 5/8
6080	4 x 2 1/2	4 1/4	4 5/8
6081	4 x 3	5	5 13/32

TS/2F-31



90° ADAPTER REDUCING CONCENTRIC

PART NO.	TUBE SIZE	A	B
6085	1 1/2 x 1	2 3/16	2
6086	2 x 1	2 3/16	2
6087	2 x 1 1/2	3	2 3/4
6088	2 1/2 x 1 1/2	3	2 3/4
6089	2 1/2 x 2	3 27/32	3 1/2
6091	3 x 2	3 27/32	3 1/2
6092	3 x 2 1/2	4 19/32	4 1/4
6095	4 x 2 1/2	4 19/32	4 1/4
6096	4 x 3	5 13/32	5

TS/31-2
TS/31-2F
TS/2F-31



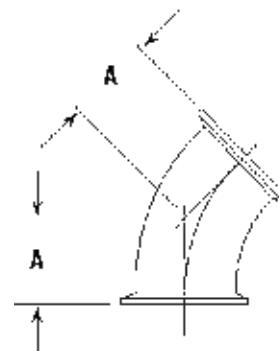
CLAMP FITTINGS

45° ELL

PART NO.	TUBE SIZE	A
6500	1	1 1/8
6501	1 1/2	1 7/16
6502	2	1 3/4
6503	2 1/2	2 1/16
6504	3	2 3/8
6505	4	3 1/8

NOTE: ONE INCH FITTINGS USE 1 1/2" CLAMP ASSEMBLIES

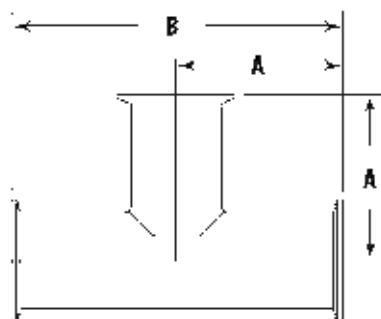
TS/2K



TEE

PART NO.	TUBE SIZE	A	B
7020	1	2 3/8	4 3/4
7021	1 1/2	2 3/4	5 1/2
7022	2	3 1/2	7
7023	2 1/2	3 1/2	7
7024	3	3 3/4	7 1/2
7025	4	4 1/2	9

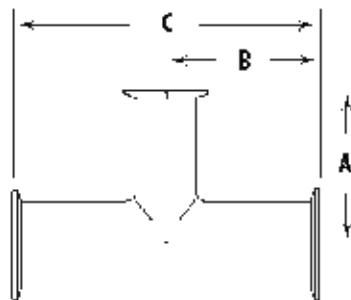
TS/7



REDUCING TEE

PART NO.	TUBE SIZE	A	B	C
7136	1 1/2 x	7/8	1	2 3/32
7137	2	1/8	2 9/16	1
7138	2 1/2	2 13/16	2 9/16	1
7141	2 1/2 x	13/16	2	2 27/32
7144	3	1/8	3 3/32	2
7145	3 1/2	3 3/32	3 3/32	2
7146	4	1/8	4 1/2	2
				9 4

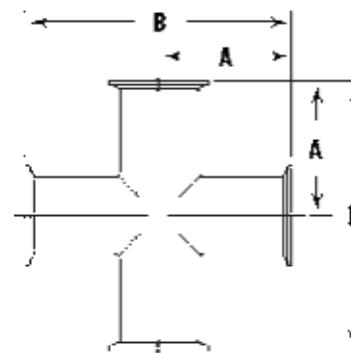
TS/7R



CROSS

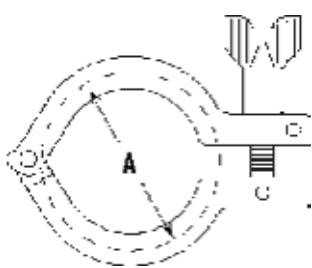
PART NO.	TUBE SIZE	A	B
7510	1	2 3/8	4 3/4
7511	1 1/2	2 3/4	5 1/2
7512	2	3 1/2	7
7513	2 1/2	3 1/2	7
7514	3	3 3/4	7 1/2
7515	4	4 1/2	9

TS/9



CLAMP FITTINGS

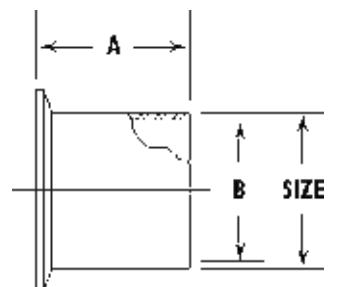
TS/13H



CLAMP HEAVY DUTY

PART NO.	A	TUBE SIZE
3521	2.1	1 1/2
3522	2.6	2
3523	3.2	2 1/2
3524	3.7	3
3525	4.8	4
3519	6.7	6

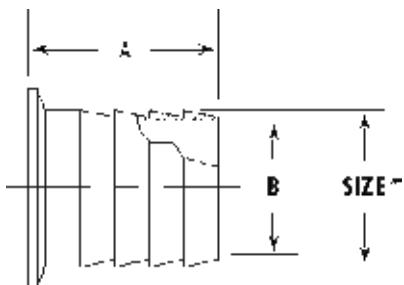
TS/14A



FERRULE

PART NO.	TUBE SIZE	A	B
2280	1	1 1/8	.870
2281	1 1/2	1 1/8	1.370
2282	2	1 1/8	1.870
2283	2 1/2	1 1/8	2.370
2284	3	1 1/8	2.870
2285	4	1 1/8	3.834
2286	6	1 1/8	5.782

TS/14AHR



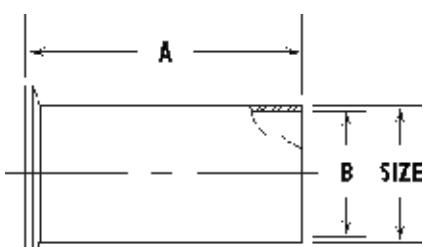
* SAME AS I.D. OF HOSE

RUBBER HOSE ADAPTER

PART NO.	TUBE SIZE	A	B
2628	1	1 5/8	.870
2629	1 1/2	1 5/8	1.370
2631	2	1 7/8	1.870
2633	2 1/2	1 7/8	2.370
2634	3	1 7/8	2.870
2635	4	2 1/8	3.834

REDUCING SIZES AVAILABLE UPON REQUEST

TS/14AHT



TYGON HOSE ADAPTER

PART NO.	TUBE SIZE	A	B
2320	1	4 1/2	.870
2321	1 1/2	4 1/2	1.370
2322	2	4 1/2	1.870
2323	2 1/2	4 1/2	2.370
2324	3	4 1/2	2.870
2325	4	4 5/8	3.834

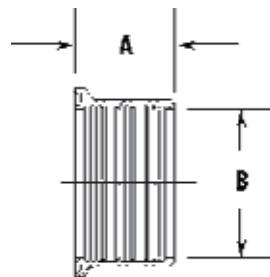
REDUCING SIZES AVAILABLE UPON REQUEST



FERRULE RECESSLESS

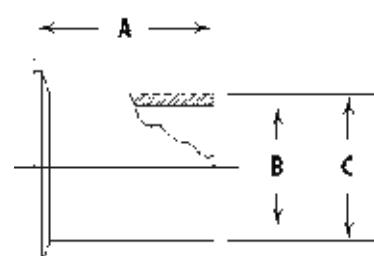
TS/14R

PART NO.	TUBE SIZE	A	B
2400	1 1/2	1 1/8	1.500
2401	2	1 5/16	2.000
2402	2 1/2	1 3/8	2.500
2403	3	1 7/16	3.000
2404	4	1 1/2	4.000

**TANK FERRULE HEAVY WALL**

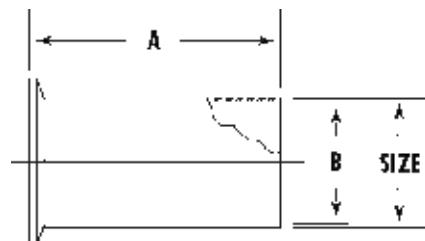
TS/14W

PART NO.	TUBE SIZE	A	B	C
2360	1	1 5/8	.870	1.160
2361	1 1/2	1 5/8	1.370	1.675
2362	2	1 3/4	1.870	2.192
2363	2 1/2	1 3/4	2.370	2.708
2364	3	1 13/16	2.870	3.224
2365	4	2 1/8	3.834	4.256

**TANK FERRULE LIGHT WALL**

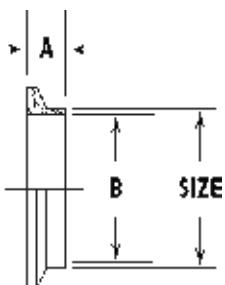
TS/14WL

PART NO.	TUBE SIZE	A	B
2290	1	3	.870
2291	1 1/2	3	1.370
2292	2	3	1.870
2293	2 1/2	3	2.370
2294	3	4	2.870
2295	4	4	3.834



CLAMP FITTINGS

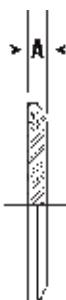
TS/14WS



WELDING FERRULE SHORT

PART NO.	TUBE SIZE	A	B
2006	1	1/2	.870
2007	1 1/2	1/2	1.370
2008	2	1/2	1.870
2010	2 1/2	1/2	2.370
2011	3	1/2	2.870
2013	4	5/8	3.834
2014	6	1 1/2	5.782

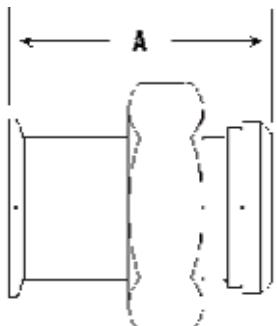
TS/16A



CAP

PART NO.	TUBE SIZE	A
2210	1 1/2	1/4
2211	2	1/4
2212	2 1/2	1/4
2213	3	1/4
2214	4	5/16
2215	6	7/16

TS/17-14

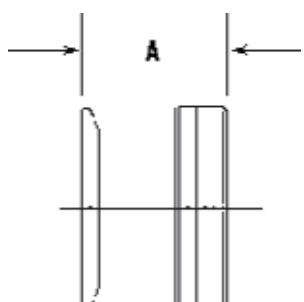


ADAPTER COUPLING CLAMP TO PLAIN

PART NO.	TUBE SIZE	A
7200	1	3
7201	1 1/2	3
7202	2	3
7203	2 1/2	3 1/2
7204	3	3 3/4
7205	4	4

SEE SPECIALS SECTION FOR OTHER

TS/17-15



ADAPTER COUPLING CLAMP TO THREAD

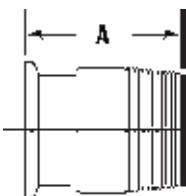
PART NO.	TUBE SIZE	A
7210	1	1 11/16
7211	1 1/2	1 23/32
7212	2	1 23/32
7213	2 1/2	1 27/32
7214	3	1 29/32
7215	4	2 11/32

SEE SPECIALS SECTION FOR OTHER

ADAPTER CLAMP TO MALE NPT
TS/21

PART NO.	TUBE SIZE	A
5882	1 x 1	2 1/4
5885	1 1/2 x 1	2 5/16
5887	1 1/2 x 1 1/2	2 7/16
5888	1 1/2 x 2	2 5/8
5893	2 x 1 1/2	2 15/32
5894	2 x 2	2 21/32
5898	2 1/2 x 2	2 25/32
5899	2 1/2 x 2 1/2	3 9/32
5903	3 x 3	3 1/2
5905	4 x 4	3 13/16

SANITARY END LISTED FIRST

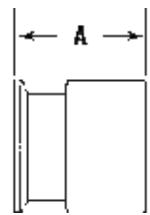


*May vary in length

ADAPTER CLAMP TO FEMALE NPT
TS/22

PART NO.	TUBE SIZE	A
5849	1 x 1	1 5/8
5855	1 1/2 x 1	1 5/8
5857	1 1/2 x 1 1/2	2 1/4
5858	1 1/2 x 2	2 1/4
5861	2 x 1 1/2	1 11/16
5862	2 x 2	2 11/32
5866	2 1/2 x 2	1 23/32
5867	2 1/2 x 2 1/2	2 3/32
5871	3 x 3	2 3/16
5873	4 x 4	2 5/8

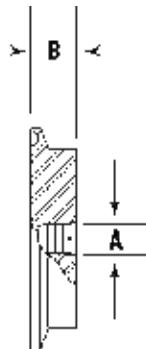
SANITARY END LISTED FIRST



*May vary in length

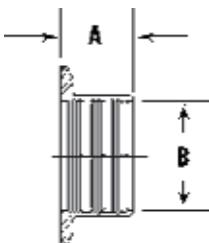
THERMOMETER CAP
TS/23B

PART NO.	TUBE SIZE	A	B
2370-0C	1 1/2	3/8	9/16
2370-0D	1 1/2	1/2	9/16
2371-0C	2	3/8	5/8
2371-0E	2	3/4	5/8
2372-0E	2 1/2	3/4	21/32
2373-0E	3	3/4	23/32
2374-0E	4	3/4	13/16



CLAMP FITTINGS

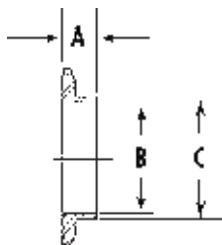
TS/31R



CONCENTRIC REDUCER FERRULE RECESSLESS

PART NO.	TUBE SIZE	A	B
2407	1 1/2 x 1	3/4	1
2408	2 x 1	3/4	1
2409	2 x 1 1/2	1 1/8	1 1/2
2411	2 1/2 x 1 1/2	1 1/8	1 1/2
2412	2 1/2 x 2	1 3/8	2
2415	3 x 2	1 3/8	2
2416	3 x 2 1/2	1 1/2	2 1/2
2420	4 x 2 1/2	1 1/2	2 1/2
2421	4 x 3	1 5/8	3

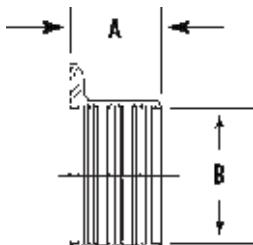
TS/31W



CONCENTRIC REDUCER FERRULE WELD

PART NO.	TUBE SIZE	A	B	C
2006	1 1/2 x 1	1/2	.870	1
2067	2 x 1	1/2	.870	1
2068	2 x 1 1/2	1/2	1.370	1 1/2
2069	2 1/2 x 1 1/2	1/2	1.370	1 1/2
2070	2 1/2 x 2	1/2	1.870	2
2072	3 x 1 1/2	1/2	1.370	1 1/2
2073	3 x 2	1/2	1.870	2
2074	3 x 2 1/2	1/2	2.370	2 1/2
2076	4 x 2	1/2	1.870	2
2077	4 x 2 1/2	1/2	2.370	2 1/2
2078	4 x 3	1/2	2.870	3

TS/32R



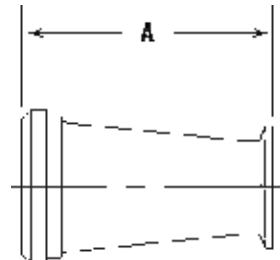
ECCENTRIC REDUCER FERRULE RECESSLESS

PART NO.	TUBE SIZE	A	B
2424	1 1/2 x 1	3/4	1
2425	2 x 1	3/4	1
2426	2 x 1 1/2	1 1/8	1 1/2
2428	2 1/2 x 1 1/2	1 1/8	1 1/2
2429	2 1/2 x 2	1 3/8	2
2432	3 x 2	1 3/8	2
2433	3 x 2 1/2	1 1/2	2 1/2
2437	4 x 2 1/2	1 1/2	2 1/2
2438	4 x 3	1 5/8	3

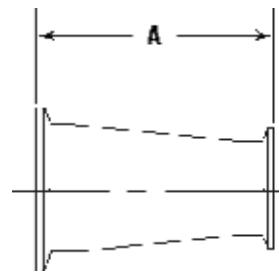
TS/31R
TS/31W
TS/32R

ADAPTER REDUCING CONCENTRIC PLAIN TO CLAMP
31-TS/14

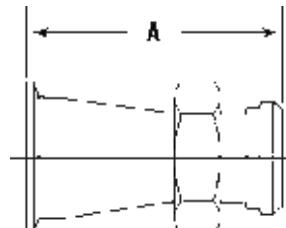
PART NO.	TUBE SIZE	A
8000	1 1/2 x 1	3 7/32
8001	2 x 1	5 1/4
8002	2 x 1 1/2	3 1/4
8003	2 1/2 x 1 1/2	5 3/8
8004	2 1/2 x 2	3 3/8
8006	3 x 2	5 13/32
8007	3 x 2 1/2	3 13/32
8010	4 x 2 1/2	7 17/32
8011	4 x 3	5 17/32


ADAPTER REDUCING CONCENTRIC CLAMP TO CLAMP
TS/31-14

PART NO.	TUBE SIZE	A
8015	1 1/2 x 1	3
8016	2 x 1	5
8017	2 x 1 1/2	3
8019	2 1/2 x 1 1/2	5
8020	2 1/2 x 2	3
8021	3 x 1 1/2	7
8022	3 x 2	5
8023	3 x 2 1/2	3
8025	4 x 2	9 1/8
8026	4 x 2 1/2	7 1/8
8027	4 x 3	5 1/8

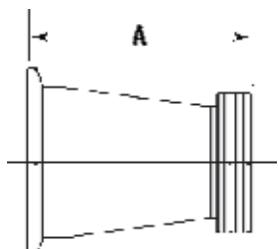

ADAPTER REDUCING CONCENTRIC CLAMP TO PLAIN
TS/31-14A

PART NO.	TUBE SIZE	A
8030	1 1/2 x 1	3 7/8
8031	2 x 1	5 7/8
8032	2 x 1 1/2	4
8033	2 1/2 x 1 1/2	6
8034	2 1/2 x 2	4
8036	3 x 2	6
8037	3 x 2 1/2	4 1/4
8040	4 x 2 1/2	8 3/8
8041	4 x 3	6 3/8



CLAMP FITTINGS

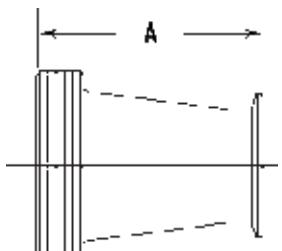
TS/31-15



ADAPTER REDUCING CONCENTRIC CLAMP TO THREAD

PART NO.	TUBE SIZE	A
8045	1 1/2 x 1	3 7/32
8046	2 x 1	5 27/32
8047	2 x 1 1/2	3 7/32
8048	2 1/2 x 1 1/2	5 7/32
8049	2 1/2 x 2	3 1/4
8051	3 x 2	5 1/4
8052	3 x 2 1/2	3 3/8
8055	4 x 2 1/2	7 1/2
8056	4 x 3	5 17/32

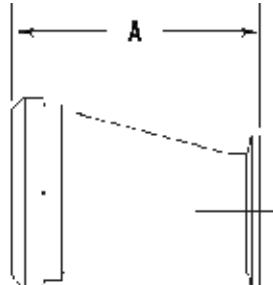
15-TS/31



ADAPTER REDUCING CONCENTRIC THREAD TO CLAMP

PART NO.	TUBE SIZE	A
8060	1 1/2 x 1	3 7/32
8061	2 x 1	5 1/4
8062	2 x 1 1/2	3 1/4
8063	2 1/2 x 1 1/2	5 3/8
8064	2 1/2 x 2	3 3/8
8066	3 x 2	5 13/32
8067	3 x 2 1/2	3 13/32
8070	4 x 2 1/2	7 17/32
8071	4 x 3	5 17/32

32-TS/14



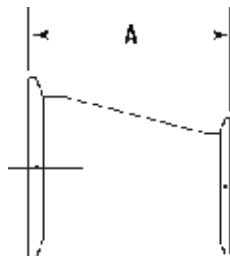
ADAPTER REDUCING ECCENTRIC PLAIN TO CLAMP

PART NO.	TUBE SIZE	A
8075	1 1/2 x 1	3 7/32
8076	2 x 1	5 1/4
8077	2 x 1 1/2	3 1/4
8078	2 1/2 x 1 1/2	5 3/8
8079	2 1/2 x 2	3 3/8
8081	3 x 2	5 13/32
8082	3 x 2 1/2	3 13/32
8085	4 x 2 1/2	7 17/32
8086	4 x 3	5 17/32

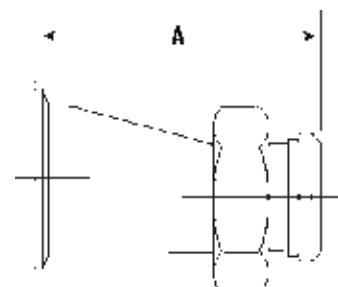


ADAPTER REDUCING ECCENTRIC CLAMP TO CLAMP
TS/32-14

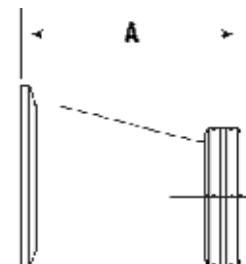
PART NO.	TUBE SIZE	A
8090	1 1/2 x 1	3
8091	2 x 1	5
8092	2 x 1 1/2	3
8093	2 1/2 x 1 1/2	5
8094	2 1/2 x 2	3
8096	3 X 2	5
8097	3 X 2 1/2	3
8100	4 x 2 1/2	7 1/8
8101	4 x 3	5 1/8


ADAPTER REDUCING ECCENTRIC CLAMP TO PLAIN
TS/32-14A

PART NO.	TUBE SIZE	A
8105	1 1/2 x 1	3 7/8
8106	2 x 1	5 7/8
8107	2 x 1 1/2	4
8108	2 1/2 x 1 1/2	6
8109	2 1/2 x 2	4
8111	3 X 2	6
8112	3 X 2 1/2	4 1/4
8115	4 x 2 1/2	8 3/8
8116	4 x 3	6 3/8

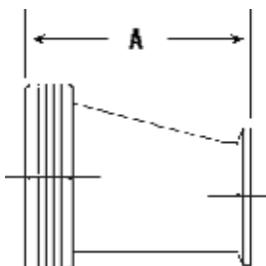

ADAPTER REDUCING ECCENTRIC CLAMP TO THREAD
TS/32-15

PART NO.	TUBE SIZE	A
8120	1 1/2 x 1	3 7/32
8121	2 x 1	5 7/32
8122	2 x 1 1/2	3 7/32
8123	2 1/2 x 1 1/2	5 7/32
8124	2 1/2 x 2	3 1/4
8126	3 X 2	5 1/4
8127	3 X 2 1/2	3 3/8
8130	4 x 2 1/2	7 1/2
8131	4 x 3	5 17/32



CLAMP FITTINGS

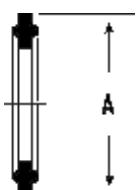
15-TS/32



ADAPTER REDUCING ECCENTRIC THREAD TO CLAMP

PART NO.	TUBE SIZE	A
8135	1 1/2 x 1	3 7/32
8136	2 x 1	5 1/4
8137	2 x 1 1/2	3 1/4
8138	2 1/2 x 1 1/2	5 3/8
8139	2 1/2 x 2	3 3/8
8141	3 X 2	5 13/32
8142	3 X 2 1/2	3 13/32
8145	4 x 2 1/2	7 17/32
8146	4 x 3	5 17/32

TS/40H



GASKET

PART NO.	TUBE SIZE	A
3094 -B, -E, -T, -V, -S	1	1 15/16
3095 -B, -E, -T, -V, -S	1 1/2	1 15/16
3096 -B, -E, -T, -V, -S	2	2 15/32
3097 -B, -E, -T, -V, -S	2 1/2	3
3098 -B, -E, -T, -V, -S	3	3 17/32
3099 -B, -E, -T, -V, -S	4	4 5/8
3109 -B, -E, -T, -V, -S	6	6 17/32

AVAILABLE IN BUNA, EPDM, TEFLO, SILICONE AND VITON

15-TS/32

THOMSEN

Quality stainless steel flow equipment.



SANITARY BUTT-WELD FITTINGS

Sanitary Butt-Weld

For over 60 years, L. C. Thomsen has been supplying high quality products to the dairy, food and beverage industry. When you think of THOMSEN, three words come to mind: excellence, quality and teamwork.

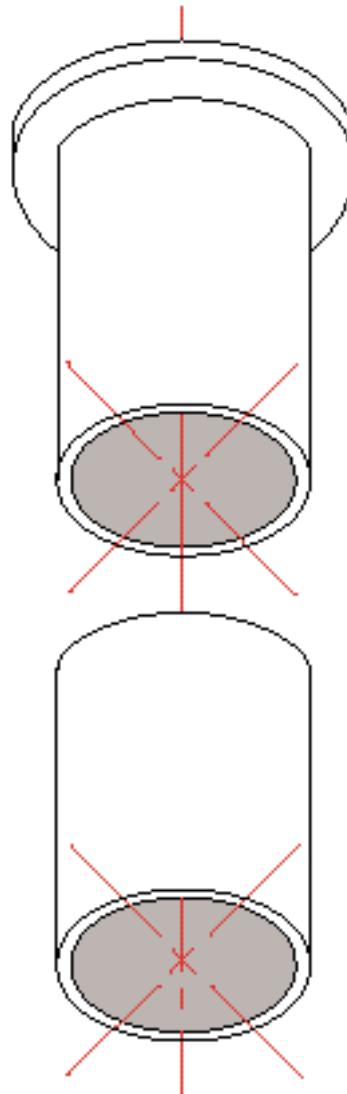
Excellence and quality are best achieved through teamwork and a shared vision. At THOMSEN we strive to:

- Manufacture the finest quality sanitary equipment in the marketplace.
- Deliver on time.
- Concentrate on customer care.
- Provide the lowest cost possible.

These widely used sanitary fittings are manufactured from both T-304 and T-316 stainless steel. Flush joint, butt-welded fittings allow full and unrestricted flow and are available with bevel seat or clamp ends. Sanitary butt-weld fittings provide a secure sanitary joint, fully approved and meeting 3A Standards.

Sanitary butt-weld fittings are available in 1" through 4" sizes and they are available in a variety of finishes.

When you need sanitary fittings, there is only one name to remember. THOMSEN, the trusted name for sanitary fittings, pumps and valves for the dairy, food and beverage industries for over 60 years.



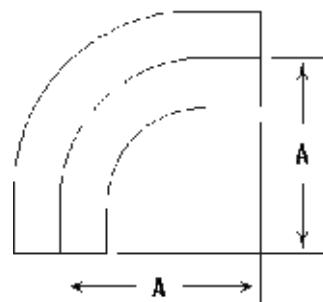
3A authorized



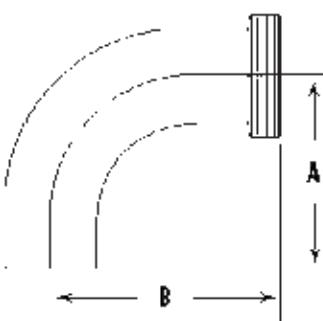
SANITARY BUTT-WELD FITTINGS

90° ELL
S2S

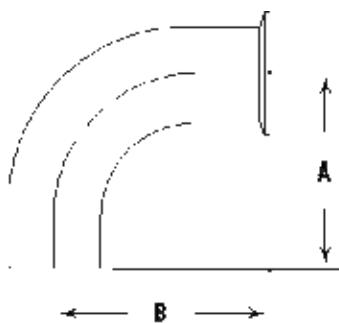
PART NO.	TUBE SIZE	A
6000	1	2 1/16
6001	1 1/2	2 15/16
6002	2	4 1/16
6003	2 1/2	5 3/16
6004	3	6 5/16
6005	4	8 5/16


90° ELL
S2T

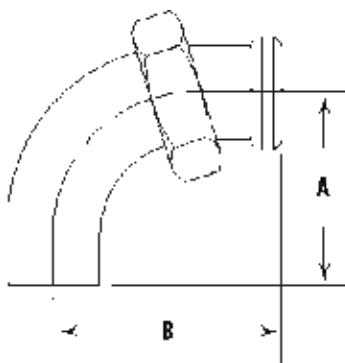
PART NO.	TUBE SIZE	A	B
6199	1 1/2	2 15/16	3 21/32
6200	2	4 1/16	4 13/16
6201	2 1/2	5 3/16	6 1/16
6202	3	6 5/16	7 7/32
6203	4	8 5/16	9 11/32


90° ELL
S2C

PART NO.	TUBE SIZE	A	B
6008	1 1/2	2 15/16	3 7/16
6009	2	4 1/16	4 9/16
6010	2 1/2	5 3/16	5 11/16
6011	3	6 5/16	6 13/16
6012	4	8 5/16	8 15/16

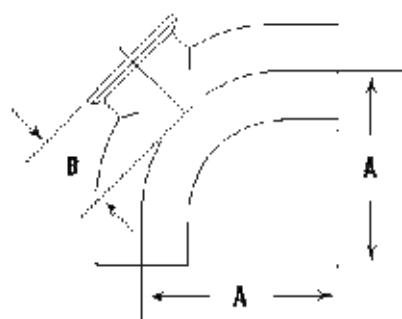

90° ELL
S2F

PART NO.	TUBE SIZE	A	B
6207	1 1/2	2 15/16	3 21/32
6208	2	4 1/16	4 13/16
6209	2 1/2	5 3/16	6 1/16
6210	3	6 5/16	7 7/32
6211	4	8 5/16	9 11/32



SANITARY BUTT-WELD FITTINGS

S2WWC

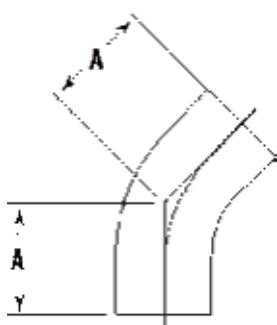


90° INSPECTION ELL

PART NO.	TUBE SIZE	A	B
6222	1 1/2	2 7/8	1 3/8
6223	2	4	1 5/8
6224	2 1/2	5 1/8	1 15/16
6225	3	6 1/4	2 3/16
6226	4	8 1/4	2 15/16

AVAILABLE IN NO. 7 FINISH ONLY

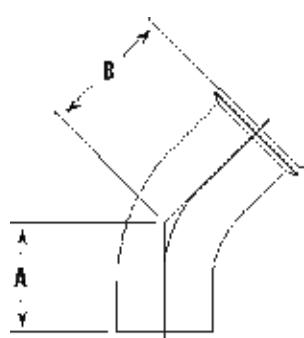
S2KS



45° ELL

PART NO.	TUBE SIZE	A
6524	1	1 3/16
6525	1 1/2	1 5/8
6526	2	2 5/16
6527	2 1/2	3
6528	3	3 11/16
6529	4	4 13/16

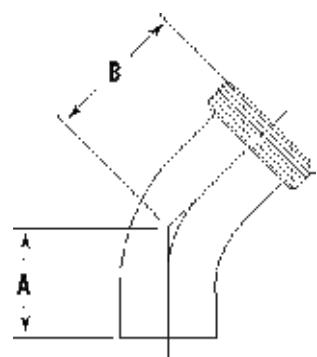
S2KC



45° ELL

PART NO.	TUBE SIZE	A	B
6531	1	1 3/16	1 11/16
6532	1 1/2	1 5/8	2 1/8
6533	2	2 5/16	2 13/16
6534	2 1/2	3	3 1/2
6535	3	3 11/16	4 3/16
6536	4	4 13/16	5 7/16

S2KT



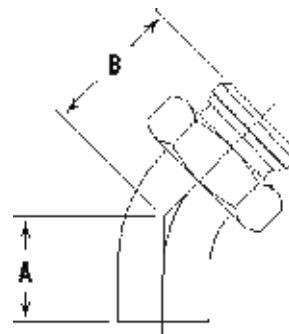
45° ELL

PART NO.	TUBE SIZE	A	B
6539	1 1/2	1 5/8	2 11/32
6540	2	2 5/16	3 1/16
6541	2 1/2	3	3 7/8
6542	3	3 11/16	4 19/32
6543	4	4 13/16	5 27/32

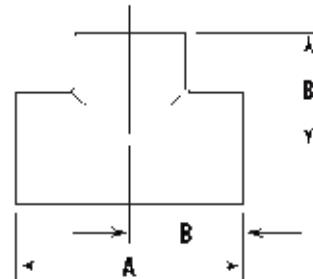
SANITARY BUTT-WELD FITTINGS

45° ELL
S2KP

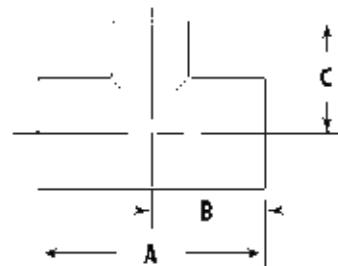
PART NO.	TUBE SIZE	A	B
6546	1 1/2	1 5/8	2 11/32
6547	2	2 5/16	3 1/16
6548	2 1/2	3	3 7/8
6549	3	3 11/16	4 19/32
6550	4	4 13/16	5 27/32


TEE
S7WWW

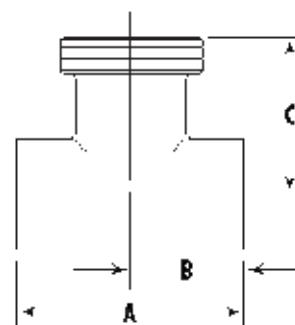
PART NO.	TUBE SIZE	A	B
7012	1	2 1/4	1 1/8
7013	1 1/2	3 5/16	1 21/32
7014	2	4 1/8	2 1/16
7015	2 1/2	4 11/16	2 11/32
7016	3	5 3/16	2 19/32
7017	4	6 7/8	3 7/16


TEE REDUCING
S7RWWW

PART NO.	TUBE SIZE	A	B	C
7123	1 1/2 x 1	3 5/16	1 21/32	1 3/8
7124	2 x 1	4 1/8	2 1/16	1 5/8
7125	2 x 1 1/2	4 1/8	2 1/16	1 29/32
7128	2 1/2 x 2	4 11/16	2 11/32	2 5/16
7131	3 x 2	5 3/16	2 19/32	2 9/16
7132	3 x 2 1/2	5 3/16	2 19/32	2 19/32


TEE
S7WWT

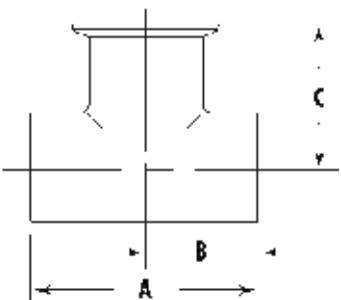
PART NO.	TUBE SIZE	A	B	C
7051	1 1/2	3 5/16	1 21/32	2 3/8
7052	2	4 1/8	2 1/16	2 13/16
7053	2 1/2	4 11/16	2 11/32	3 7/32
7054	3	5 3/16	2 19/32	3 1/2
7055	4	6 7/8	3 7/16	4 15/32



SANITARY BUTT-WELD FITTINGS

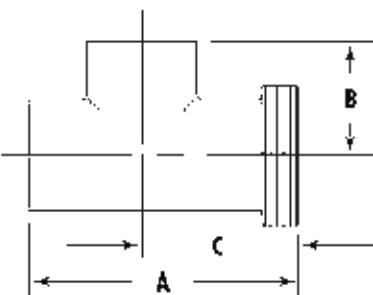


S7WWC



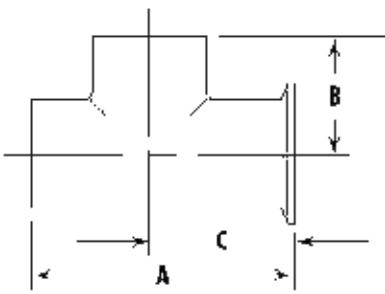
PART NO.	TUBE SIZE	A	B	C
7058	1	2 1/4	1 1/8	1 5/8
7059	1 1/2	3 5/16	1 21/32	2 5/32
7060	2	4 1/8	2 1/16	2 9/16
7061	2 1/2	4 11/16	2 11/32	2 27/32
7062	3	5 3/16	2 19/32	3 3/32
7063	4	6 7/8	3 7/16	4 1/16

S7WTW



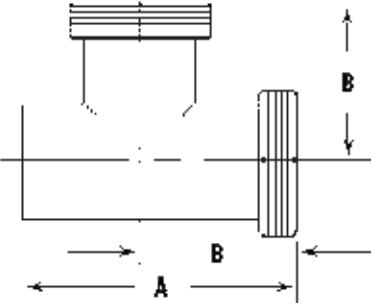
PART NO.	TUBE SIZE	A	B	C
7067	1 1/2	4 1/32	1 21/32	2 3/8
7068	2	4 7/8	2 1/16	2 13/16
7069	2 1/2	5 9/16	2 11/32	3 7/32
7070	3	6 3/32	2 19/32	3 1/2
7071	4	7 29/32	3 7/16	4 15/32

S7WCW



PART NO.	TUBE SIZE	A	B	C
7074	1 1/2	3 13/16	1 21/32	2 5/32
7075	2	4 5/8	2 1/16	2 9/16
7076	2 1/2	5 9/16	2 11/32	2 27/32
7077	3	5 11/16	2 19/32	3 3/32
7078	4	7 1/2	3 7/16	4 1/16

S7WTT



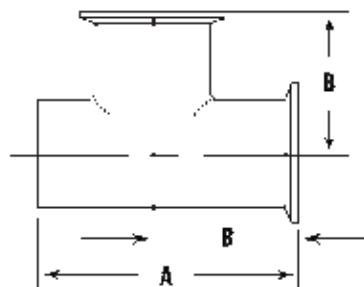
PART NO.	TUBE SIZE	A	B
7081	1 1/2	4 1/32	2 3/8
7082	2	4 7/8	2 13/16
7083	2 1/2	5 9/16	3 7/32
7084	3	6 3/32	3 1/2
7085	4	7 29/32	4 15/32

TECHNICAL DRAWINGS

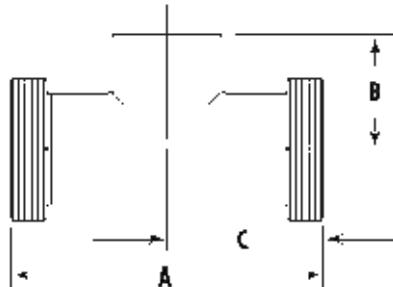
SANITARY BUTT-WELD FITTINGS

TEE

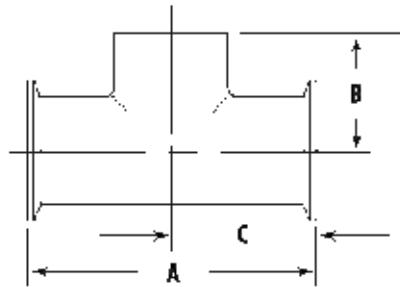
PART NO.	TUBE SIZE	A	B
7088	1 1/2	3 13/16	2 5/32
7089	2	4 5/8	2 9/16
7090	2 1/2	5 3/16	2 27/32
7091	3	5 11/16	3 3/32
7092	4	7 1/2	4 1/16

S7WCC

TEE

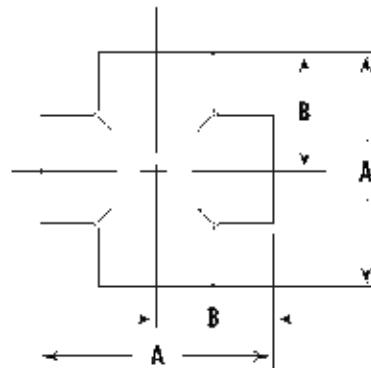
PART NO.	TUBE SIZE	A	B	C
7095	1 1/2	4 3/4	1 21/32	2 3/8
7096	2	5 5/8	2 1/16	2 13/16
7097	2 1/2	6 7/16	2 11/32	3 7/32
7098	3	7	2 19/32	3 1/2
7099	4	8 15/16	3 7/16	4 15/32

S7TTW

TEE

PART NO.	TUBE SIZE	A	B	C
7102	1 1/2	4 5/16	1 21/32	2 5/32
7103	2	5 1/8	2 1/16	2 9/16
7104	2 1/2	5 11/16	2 11/32	2 27/32
7105	3	6 3/16	2 19/32	3 3/32
7106	4	8 1/8	3 7/16	4 1/16

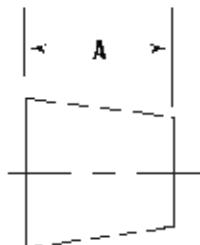
S7CCW

CROSS

PART NO.	TUBE SIZE	A	B
7518	1	2 1/4	1 1/8
7519	1 1/2	3 5/16	1 21/32
7520	2	4 1/8	2 1/16
7521	2 1/2	4 11/16	2 11/32
7522	3	5 3/16	2 19/32
7523	4	6 7/8	3 7/16

S9WWWW


SANITARY BUTT-WELD FITTINGS

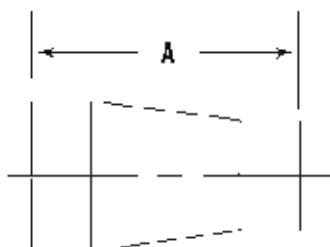
S31W



REDUCER CONCENTRIC

PART NO.	TUBE SIZE	A
5910	1 1/2 x 1	2
5911	2 x 1 1/2	2
5925	2 1/2 x 1 1/2	4
5912	2 1/2 x 2	2
5913	3 x 2	4
5914	3 x 2 1/2	2
5927	4 x 2	8
5928	4 x 2 1/2	6
5915	4 x 3	4

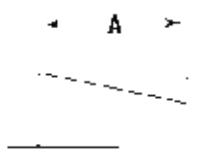
S31E



REDUCER CONCENTRIC ENDS TANGENT

PART NO.	TUBE SIZE	A
8284	1 1/2 x 1	3 3/8
8285	2 x 1 1/2	3 7/8
8286	2 1/2 x 1 1/2	6
8287	2 1/2 x 2	4 1/4
8289	3 x 2	6 3/8
8290	3 x 2 1/2	4 1/2
8292	4 x 2	10 1/2
8293	4 x 2 1/2	8 5/8
8294	4 x 3	6 3/4

S32W



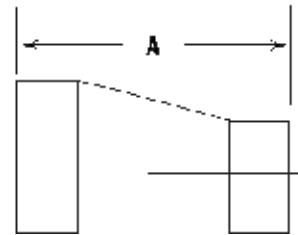
REDUCER ECCENTRIC

PART NO.	TUBE SIZE	A
5917	1 1/2 x 1	2
5918	2 x 1 1/2	2
5931	2 1/2 x 1 1/2	4
5919	2 1/2 x 2	2
5920	3 x 2	4
5921	3 x 2 1/2	2
5933	4 x 2	8
5934	4 x 2 1/2	6
5922	4 x 3	4

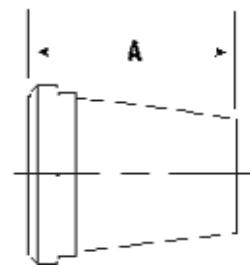
SANITARY BUTT-WELD FITTINGS

REDUCER ECCENTRIC ENDS TANGENT
S32E

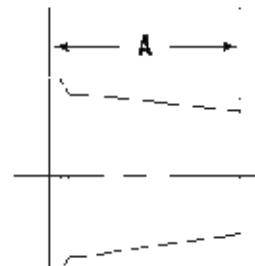
PART NO.	TUBE SIZE	A
8297	1 1/2 x 1	3 3/8
8299	2 x 1 1/2	3 7/8
8300	2 1/2 x 1 1/2	6
8301	2 1/2 x 2	4 1/4
8303	3 x 2	6 3/8
8304	3 x 2 1/2	4 1/2
8306	4 x 2	10 1/2
8307	4 x 2 1/2	8 5/8
8308	4 x 3	6 3/4


REDUCER CONCENTRIC PLAIN TO WELD
S31P

PART NO.	TUBE SIZE	A
8312	2 x 1 1/2	2 3/4
8313	2 1/2 x 1 1/2	4 7/8
8314	2 1/2 x 2	2 7/8
8316	3 x 2	4 29/32
8317	3 x 2 1/2	2 29/32
8318	4 x 2	9 1/32
8319	4 x 2 1/2	7 1/32
8320	4 x 3	5 1/32

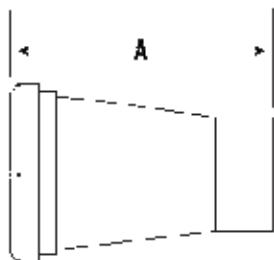

REDUCER CONCENTRIC CLAMP TO WELD
S31C

PART NO.	TUBE SIZE	A
8327	2 x 1 1/2	2 1/2
8328	2 1/2 x 1 1/2	4 1/2
8329	2 1/2 x 2	2 1/2
8332	3 x 2	4 1/2
8333	3 x 2 1/2	2 1/2
8334	4 x 2	8 5/8
8335	4 x 2 1/2	6 5/8
8336	4 x 3	4 5/8



SANITARY BUTT-WELD FITTINGS

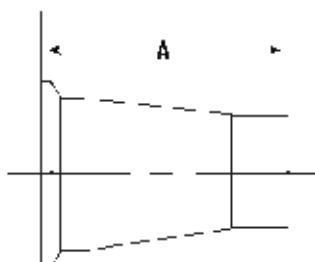
S31PE



REDUCER CONCENTRIC PLAIN TO TANGENT

PART NO.	TUBE SIZE	A
8339	2 x 1 1/2	3 17/32
8340	2 1/2 x 1 1/2	5 21/32
8341	2 1/2 x 2	3 15/16
8343	3 x 2	5 31/32
8344	3 x 2 1/2	4 3/32
8345	4 x 2	10 9/32
8346	4 x 2 1/2	8 13/32
8347	4 x 3	6 17/32

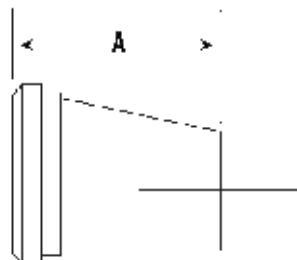
S31CE



REDUCER CONCENTRIC CLAMP TO TANGENT

PART NO.	TUBE SIZE	A
8352	2 x 1 1/2	3 5/32
8353	2 1/2 x 1 1/2	5 5/32
8354	2 1/2 x 2	3 7/16
8355	3 x 2	5 7/16
8356	3 x 2 1/2	3 15/32
8357	4 x 2	9 7/16
8358	4 x 2 1/2	7 15/16
8359	4 x 3	6 5/16

S32P



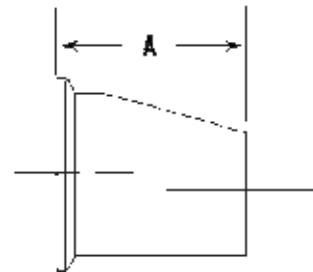
REDUCER ECCENTRIC PLAIN TO WELD

PART NO.	TUBE SIZE	A
8363	2 x 1 1/2	2 3/4
8364	2 1/2 x 1 1/2	4 7/8
8365	2 1/2 x 2	2 7/8
8366	3 x 2	4 29/32
8367	3 x 2 1/2	2 29/32
8368	4 x 2	9 1/32
8369	4 x 2 1/2	7 1/32
8370	4 x 3	5 1/32

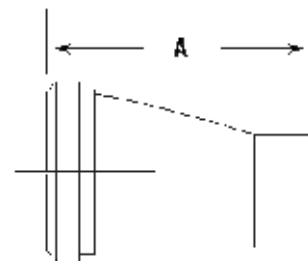
SANITARY BUTT-WELD FITTINGS

REDUCER ECCENTRIC CLAMP TO WELD
S32C

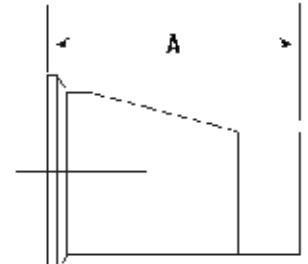
PART NO.	TUBE SIZE	A
8374	2 x 1 1/2	2 1/2
8375	2 1/2 x 1 1/2	4 1/2
8376	2 1/2 x 2	2 1/2
8378	3 x 2	4 1/2
8379	3 x 2 1/2	2 1/2
8380	4 x 2	8 5/8
8381	4 x 2 1/2	6 5/8
8382	4 x 3	4 5/8


REDUCER ECCENTRIC PLAIN TO TANGENT
S32PE

PART NO.	TUBE SIZE	A
8386	2 x 1 1/2	3 17/32
8387	2 1/2 x 1 1/2	5 21/32
8388	2 1/2 x 2	3 15/16
8390	3 x 2	5 31/32
8391	3 x 2 1/2	4 3/32
8392	4 x 2	10 9/32
8393	4 x 2 1/2	8 13/32
8394	4 x 3	6 17/32


REDUCER ECCENTRIC CLAMP TO TANGENT
S32CE

PART NO.	TUBE SIZE	A
8398	2 x 1 1/2	3 5/32
8399	2 1/2 x 1 1/2	5 5/32
8400	2 1/2 x 2	3 7/16
8401	3 x 2	5 7/16
8402	3 x 2 1/2	3 15/32
8403	4 x 2	9 7/16
8404	4 x 2 1/2	7 15/16
8405	4 x 3	6 5/16



THOMSEN

Quality stainless steel flow equipment.



INDUSTRIAL TUBE O.D.

Industrial Tube O.D.

For over 60 years, L. C. Thomsen has been supplying high quality products to the dairy, food and beverage industry. When you think of THOMSEN[®], three words come to mind: excellence, quality and teamwork.

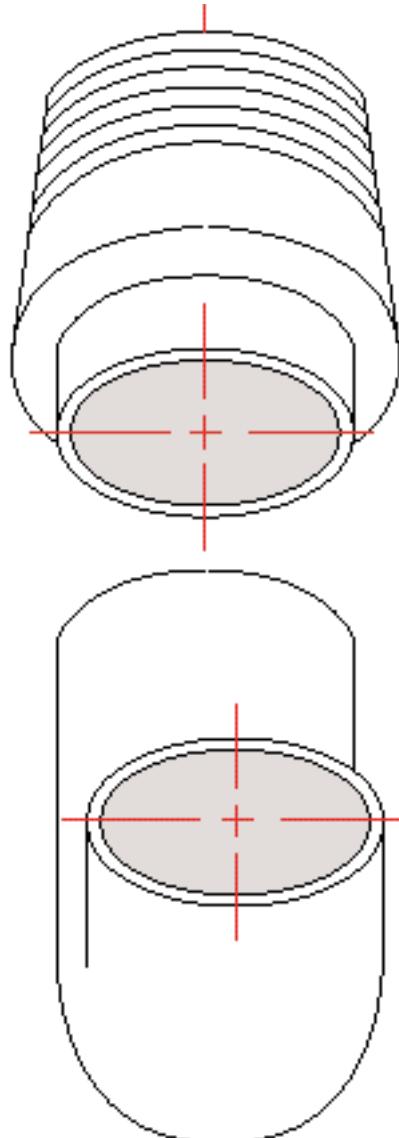
Excellence and quality are best achieved through teamwork and a shared vision. At THOMSEN[®] we strive to:

- Manufacture the finest quality sanitary equipment in the marketplace.
- Deliver on time.
- Concentrate on customer care.
- Provide the lowest cost possible.

These widely used industrial fittings are manufactured from both T-304 and T-316 stainless steel. Tube O.D. fittings are suited for a wide range of industrial applications where corrosion and contamination must be avoided and smooth inner surfaces are required.

Tube O.D. fittings are available in 1" through 4" sizes and they are available in a variety of finishes.

When you need sanitary fittings, there is only one name to remember. THOMSEN[®], the trusted name for sanitary fittings, pumps and valves for the dairy, food and beverage industries for 60 years.

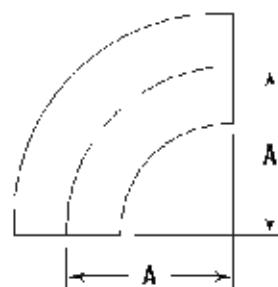


THOMSEN

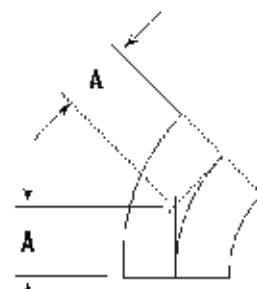
TUBE O.D. FITTINGS

90° ELL

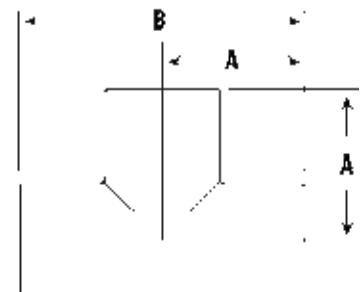
PART NO.	TUBE SIZE	A
5500	1	1 1/2
5501	1 1/2	2 1/4
5502	2	3
5503	2 1/2	3 3/4
5504	3	4 1/2
5505	4	6
5482	6	9

2WC

45° ELL

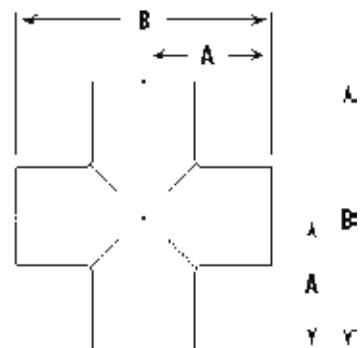
PART NO.	TUBE SIZE	A
5508	1	5/8
5509	1 1/2	15/16
5510	2	1 1/4
5511	2 1/2	1 9/16
5512	3	1 7/8
5513	4	2 1/2
5514	6	3 3/4

2WK

TEE

PART NO.	TUBE SIZE	A	B
5528	1	1 1/8	3 3/4
5529	1 1/2	2 1/4	4 1/2
5530	2	3	6
5531	2 1/2	3	6
5532	3	3 1/4	6 1/2
5533	4	3 7/8	7 3/4
5534	6	8	16

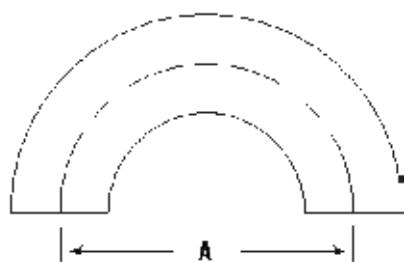
7W

CROSS

PART NO.	TUBE SIZE	A	B
5552	1	1 7/8	3 3/4
5553	1 1/2	2 1/4	4 1/2
5554	2	3	6
5555	2 1/2	3	6
5556	3	3 1/4	6 1/2
5557	4	3 7/8	7 3/4
5558	6	8	16

9W


TUBE O.D. FITTINGS

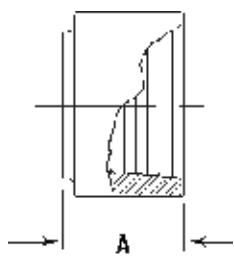
2WU



180° ELL

PART NO.	TUBE SIZE	A
5560	1	3
5561	1 1/2	4 1/2
5562	2	6
5563	2 1/2	7 1/2
5564	3	9
5565	4	12

18WB

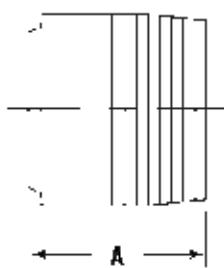


*May vary in length

FEMALE NPT

PART NO.	TUBE SIZE	A*
5692	1	1 1/16
5697	1 1/2	1 3/16
5700	2	1 5/8
5702	2 1/2	1 7/16
5703	3	1 9/16
5704	4	1 9/16

19WB

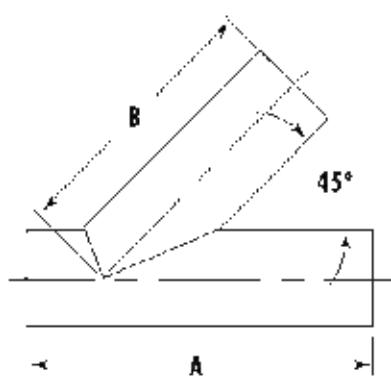


*May vary in length

MALE NPT

PART NO.	TUBE SIZE	A*
5663	1	1 13/16
5671	1 1/2	1 7/8
5675	2	2 7/32
5680	2 1/2	2 21/32
5684	3	2 23/32
5686	4	3

28WA



45° LATERAL

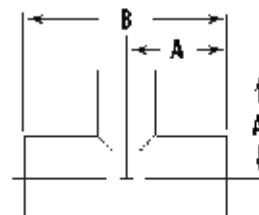
PART NO.	TUBE SIZE	A	B
5570	1	6	5
5571	1 1/2	7 3/8	6 3/16
5572	2	8 3/4	7 1/8
5573	2 1/2	10	8 1/2
5574	3	10 3/4	8 7/8
5575	4	12 13/16	10 3/4

TUBE O.D. FITTINGS

REDUCING TEE

PART NO.	TUBE SIZE	A	B
5626	1 1/2 x 1	2 1/4	4 1/2
5628	2 x 1 1/2	3	6
5630	2 1/2 x 1 1/2	3	6
5631	2 1/2 x 2	3	6
5633	3 x 2	3 1/4	6 1/2
5634	3 x 2 1/2	3 1/4	6 1/2
5638	4 x 2	3 7/8	7 3/4
5639	4 x 2 1/2	3 7/8	7 3/4
5640	4 x 3	3 7/8	7 3/4

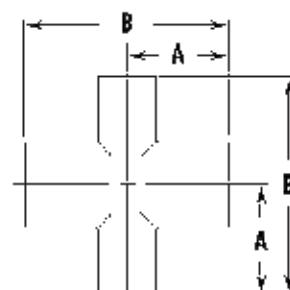
7WR



REDUCING CROSS

PART NO.	TUBE SIZE	A	B
5642	1 1/2 x 1	2 1/4	4 1/2
5644	2 x 1 1/2	3	6
5646	2 1/2 x 1 1/2	3	6
5647	2 1/2 x 2	3	6
5649	3 x 2	3 1/4	6 1/2
5650	3 x 2 1/2	3 1/4	6 1/2
5652	4 x 2	3 7/8	7 3/4
5653	4 x 2 1/2	3 7/8	7 3/4
5654	4 x 3	3 7/8	7 3/4

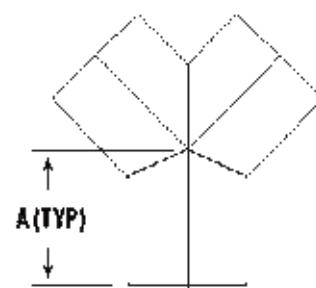
9WR



TRUE Y

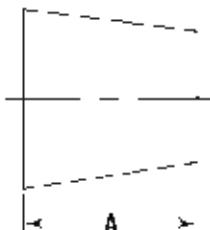
PART NO.	TUBE SIZE	A
5986	1 1/2	1
5987	2	2
5988	2 1/2	2 3/8
5989	3	2 3/4
5990	4	4

A28B



TUBE O.D. FITTINGS

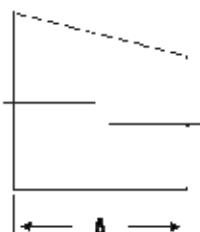
31W



CONCENTRIC REDUCER

PART NO.	TUBE SIZE	A
5910	1 1/2 x 1	2
5911	2 x 1 1/2	2
5925	2 1/2 x 1 1/2	4
5912	2 1/2 x 2	2
5913	3 x 2	4
5914	3 x 2 1/2	2
5927	4 x 2	8
5928	4 x 2 1/2	6
5915	4 x 3	4

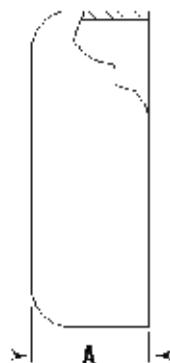
32W



ECCENTRIC REDUCER

PART NO.	TUBE SIZE	A
5917	1 1/2 x 1	2
5918	2 x 1 1/2	2
5931	2 1/2 x 1 1/2	4
5919	2 1/2 x 2	2
5920	3 x 2	4
5921	3 x 2 1/2	2
5933	4 x 2	8
5934	4 x 2 1/2	6
5922	4 x 3	4

16W



CAP

PART NO.	TUBE SIZE	A
3494	1	3/4
3495	1 1/2	3/4
3496	2	3/4
3497	2 1/2	1
3498	3	1 1/4
3499	4	1 1/2

THOMSEN

Quality stainless steel flow equipment.



SANITARY VALVES

Sanitary Valves

For over 60 years, L. C. Thomsen has been supplying high quality products to the dairy, food and beverage industry. When you think of THOMSEN, three words come to mind: excellence, quality and teamwork.

Excellence and quality are best achieved through teamwork and a shared vision. At THOMSEN we strive to:

- Manufacture the finest quality sanitary equipment in the marketplace.
- Deliver on time.
- Concentrate on customer care.
- Provide the lowest cost possible.

THOMSEN manufactures a full line of truck tank valves, farm tank valves, plug valves, sample valves and check valves in both T-304 and T-316 material. Most valves are available with clamp, or bevel seat connections.

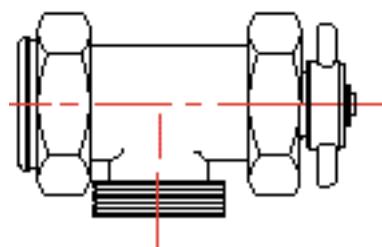
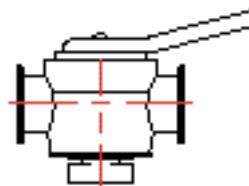
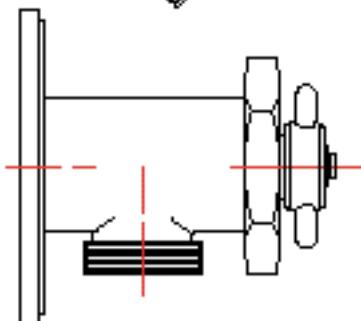
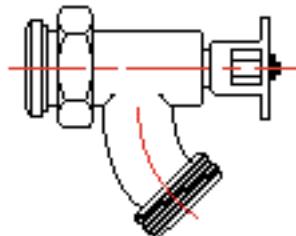
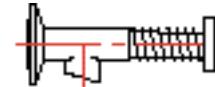
THOMSEN valves are available in 1" through 4" sizes with a variety of elastomers.

When you need sanitary valves, there is only one name to remember. THOMSEN, the trusted name for sanitary fittings, pumps and valves for the dairy, food and beverage industries for over 60 years.

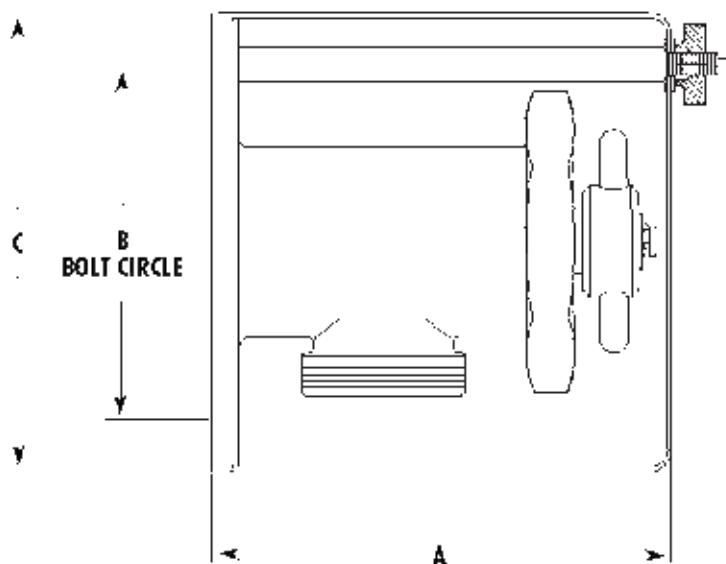
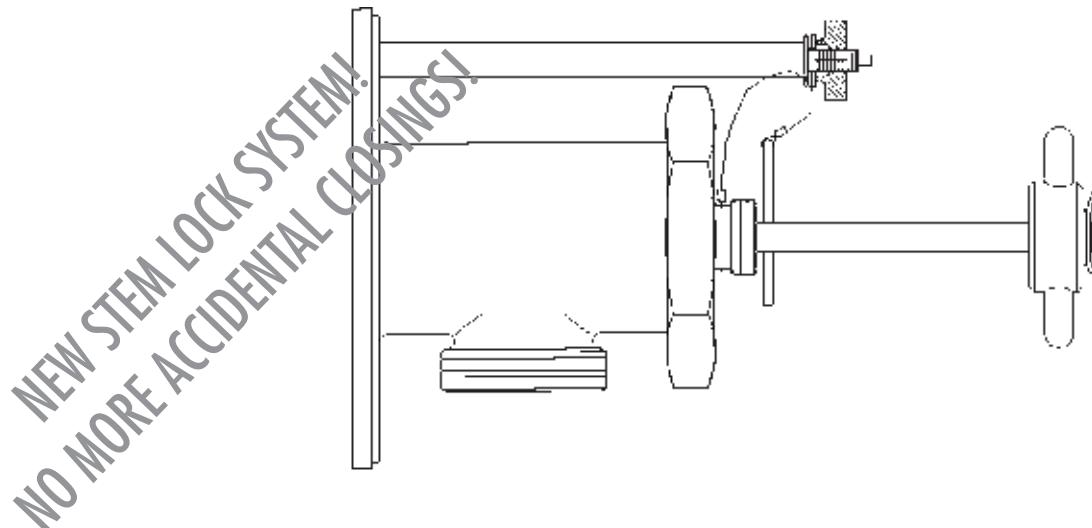
3A authorized



THOMSEN



**SANITARY TANKER
VALVES**



SIZE	A	B*	C
3	9"	6"	8 $\frac{1}{16}$ "
4	11 $\frac{1}{4}$ "	7 $\frac{1}{2}$ "	11"

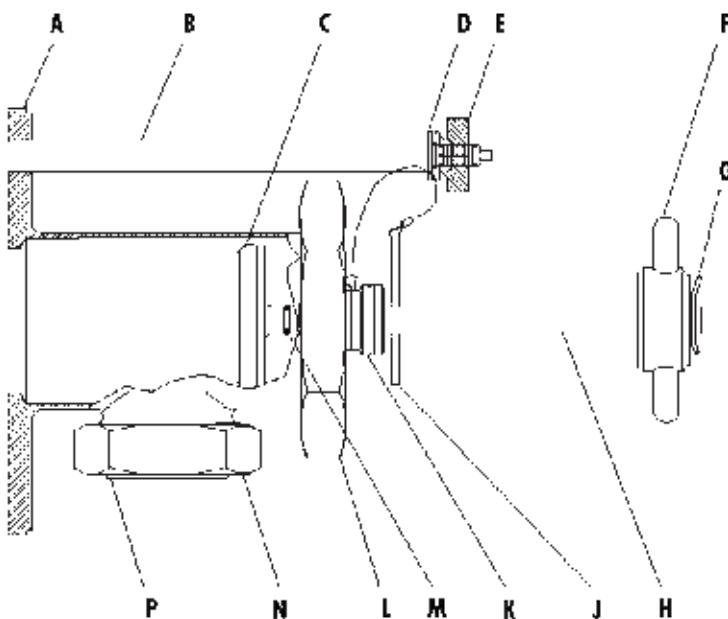
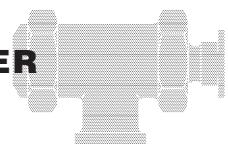
Valves available with rubber bonded seat or replaceable gasket seat. On all L. C. Thomsen valves the new stem lock system is standard.

*(4) 1 1/16 diameter bolt holes equally spaced on bolt circle.

PRICES EFFECTIVE JULY 4, 1996
PRICES SUBJECT TO CHANGE WITHOUT NOTIFICATION.



SANITARY TANKER VALVES



DETAIL NO.	PART NO.	DESCRIPTION	W/COVER	W/O COVER
A	14076-00	Body		
B	14010-00	Post (5/8-11)		
	14014-00	Post (3/4-16)		
C	14116-00	Gasket (black or white)		
D	14023-00	Washer		
	14024-00	3/4 Washer		
E	1054-00	Wing nut (5/8-11)		
	14027-00	Wing nut (3/4-16)		
F	14050-00	Handle		
G	13635-00	Clip		
H	14099-00	Stem (bonded)		
	14095-00	Stem (gasket)		
J	14163-00	Cable/clip assembly		
K	14030-00	Bonnet		
L	2248-00	Hex nut 3 1/2"		
M	3129-00	"O" ring		
N	2234-00	Hex nut		
P	2314-00	Cap		
	14155-00	Stem lock kit with stem		
	14156-00	Stem lock kit without stem		
	14157-00	Warning label kit		
	14000-47	304SS dust cover		
	14000-97	Aluminum dust cover		
	14117-T0	3" 60TTF flange gasket (teflon)		
	14117-PE	3" 60TTF flange gasket (polyethylene)		

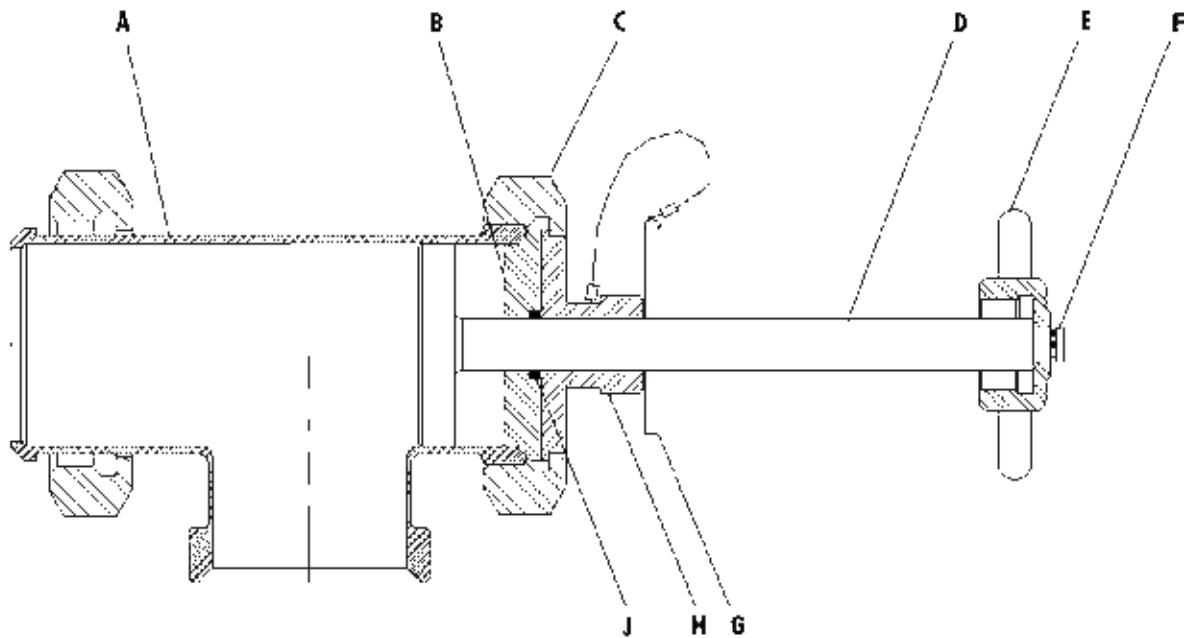
PRICES EFFECTIVE JULY 4, 1996

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SANITARY TANKER VALVES



14341-00 3" TANKER VALVE (4189)

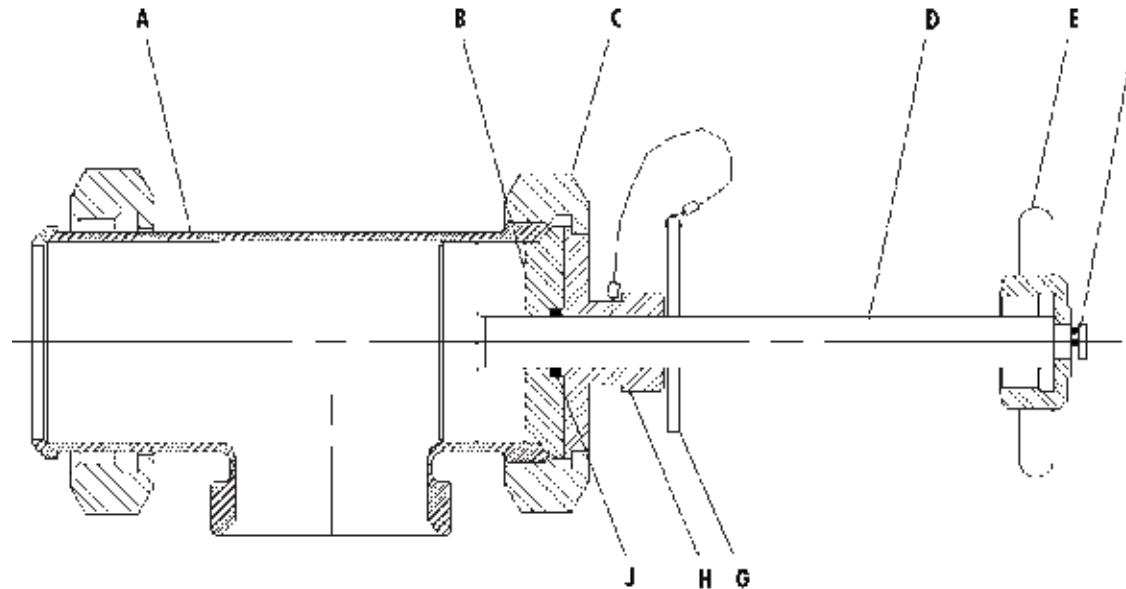
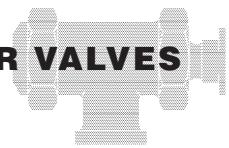
DETAIL NO.	PART NO.	DESCRIPTION
A	14230-00	Body
B	14032-00	Lower bonnet half
C	2234-00	Hex nut
D	14182-00	Stem
E	14050-00	Handle
F	13635-00	Clip
G	14163-00	Cable/clip assembly
H	14034-00	Upper bonnet half
J	3117-00	"O" ring
	14271-00	Stem lock kit with stem
	14272-00	Stem lock kit without stem
	14273-00	Warning label kit

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PRICES SUBJECT TO CHANGE WITHOUT NOTIFICATION.



SANITARY TANKER VALVES



14345-00 3" TANKER VALVE (4192) SHORT OUTLET

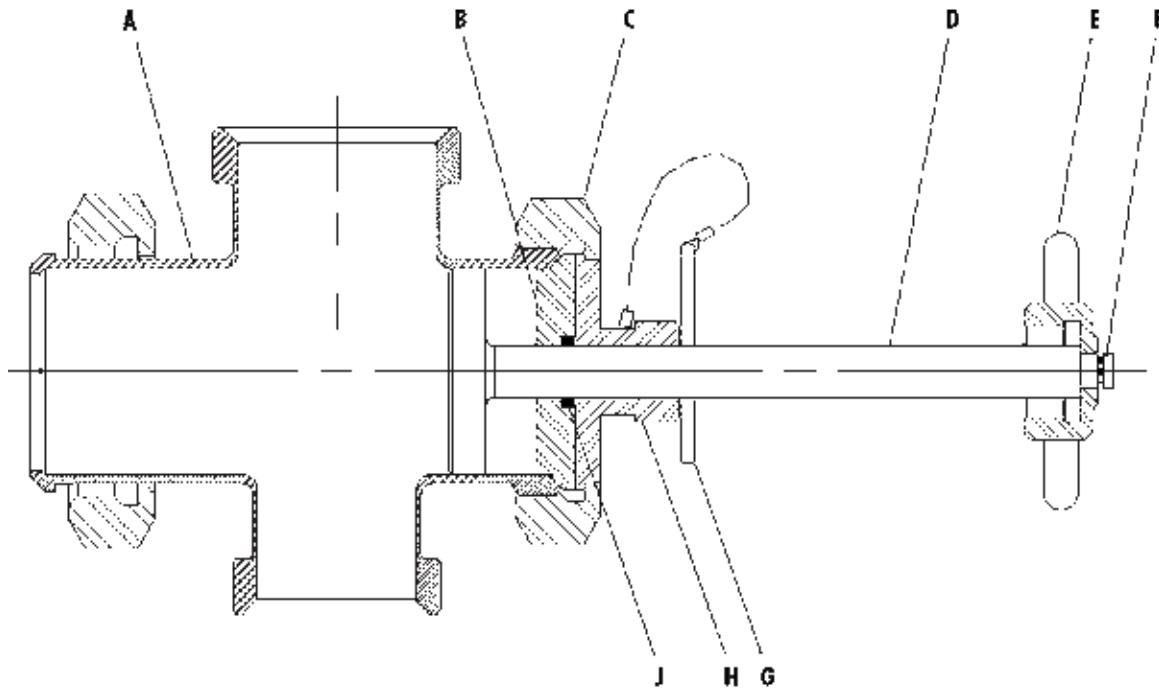
DETAIL NO.	PART NO.	DESCRIPTION
A	14233-00	Body
B	14032-00	Lower bonnet half
C	2234-00	Hex nut
D	14182-00	Stem
E	14050-00	Handle
F	13635-00	Clip
G	14163-00	Cable/clip assembly
H	14034-00	Upper bonnet half
I	3117-00	"O" ring
J	14271-00	Stem lock kit with stem
	14272-00	Stem lock kit without stem
	14273-00	Warning label kit

PRICES EFFECTIVE JULY 4, 1996

PRICES SUBJECT TO CHANGE WITHOUT NOTIFICATION.



SANITARY TANKER VALVES



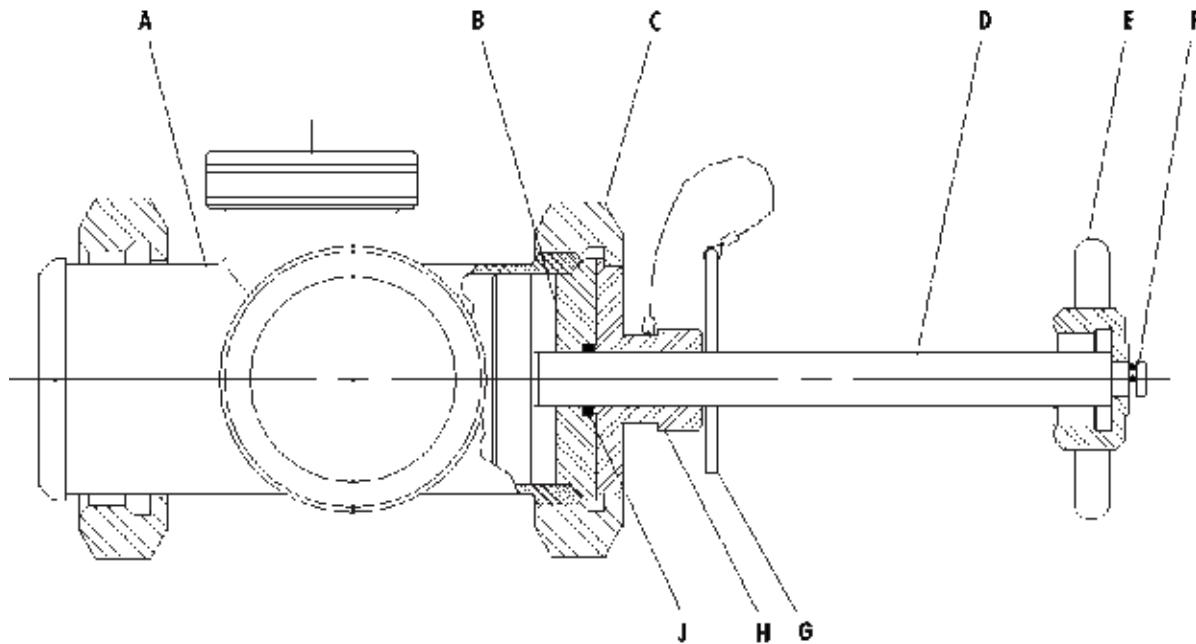
14350-00 3" x 3" x 2" TANKER VALVE (4190M) 6 & 12 OC

DETAIL NO.	PART NO.	DESCRIPTION
A	14216-00	Body
B	14032-00	Lower bonnet half
C	2234-00	Hex nut
D	14182-00	Stem
E	14050-00	Handle
F	13635-00	Clip
G	14163-00	Cable/clip assembly
H	14034-00	Upper bonnet half
J	3117-00	"O" ring
	14271-00	Stem lock kit with stem
	14272-00	Stem lock kit without stem
	14273-00	Warning label kit

PRICES EFFECTIVE JULY 4, 1996

PRICES SUBJECT TO CHANGE WITHOUT NOTIFICATION.



**14355-00 3" x 3" x 2" TANKER VALVE (4190AA) 6 & 9 OC**

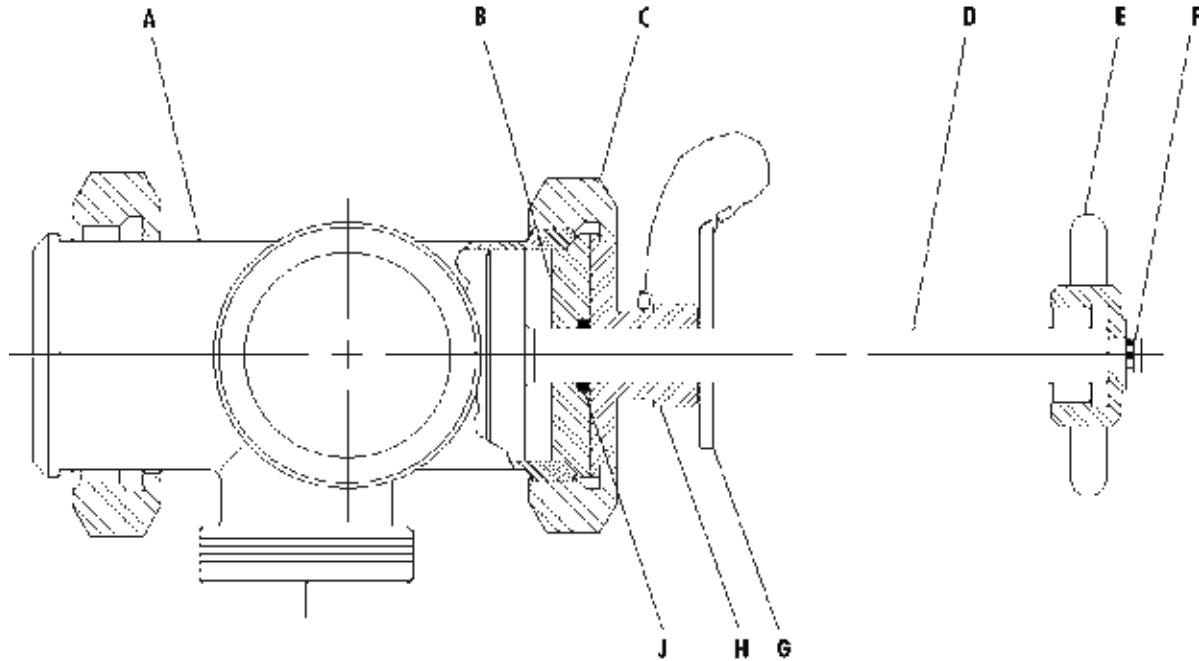
DETAIL NO.	PART NO.	DESCRIPTION
A	14225-00	Body
B	14032-00	Lower bonnet half
C	2234-00	Hex nut
D	14182-00	Stem
E	14050-00	Handle
F	13635-00	Clip
G	14163-00	Cable/clip assembly
H	14034-00	Upper bonnet half
J	3117-00	"O" ring
	14271-00	Stem lock kit with stem
	14272-00	Stem lock kit without stem
	14273-00	Warning label kit

PRICES EFFECTIVE JULY 4, 1996

PRICES SUBJECT TO CHANGE WITHOUT NOTIFICATION.



**SANITARY TANKER
VALVES**



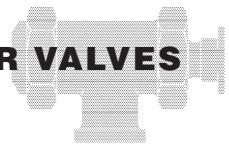
14356-00 3" x 3" x 2" TANKER VALVE (4190A) 6 & 3 OC

DETAIL NO.	PART NO.	DESCRIPTION
A	14226-00	Body
B	14032-00	Lower bonnet half
C	2234-00	Hex nut
D	14182-00	Stem
E	14050-00	Handle
F	13635-00	Clip
G	14163-00	Cable/clip assembly
H	14034-00	Upper bonnet half
J	3117-00	"O" ring
	14271-00	Stem lock kit with stem
	14272-00	Stem lock kit without stem
	14273-00	Warning label kit

PRICES EFFECTIVE JULY 4, 1996

PRICES SUBJECT TO CHANGE WITHOUT NOTIFICATION.

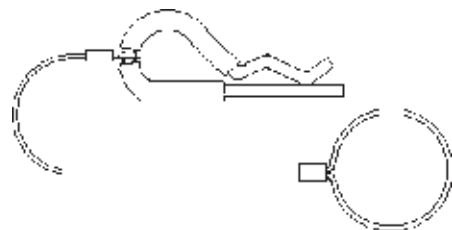
SANITARY TANKER VALVES



14159-00
TANKER VALVE WARNING LABEL



14270-00
TANK VALVE BONNET WARNING LABEL



14163-40
SAFETY CLIP AND CABLE ASSY.

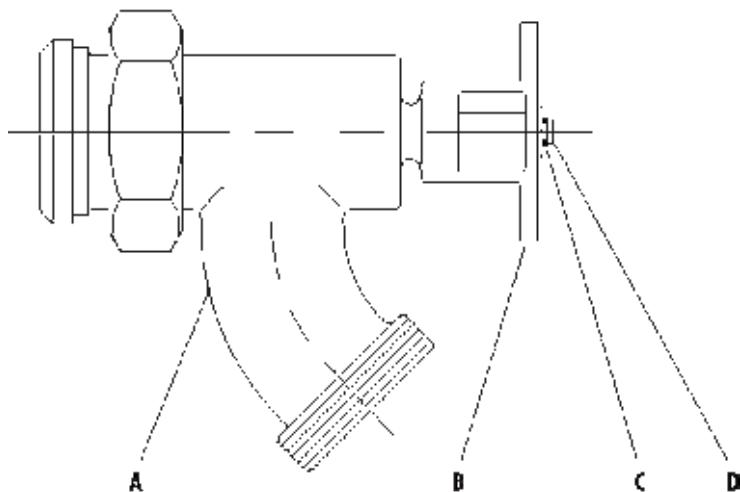
FIRST IN SAFETY

- *Thomsen* introduces their new stem lock system for truck tank valves.
- No more accidental valve closing during loading or unloading.
- Retrofits are available for all valves, any manufacture.
- Kit is available with stem for all Thomsen valves.



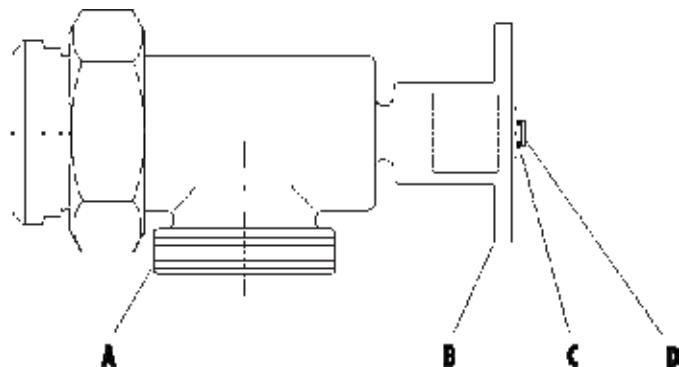


SANITARY TANK VALVES



13755-00 1 1/2" 45° FARM COOLER VALVE

DETAIL NO.	PART NO.	DESCRIPTION
A	13740-00	Body
B	14549-00	Handle
C	13635-00	Clip
D	13705-00	Stem
	3135-00	"O" ring



13810-00 1 1/2" 90° FARM COOLER VALVE

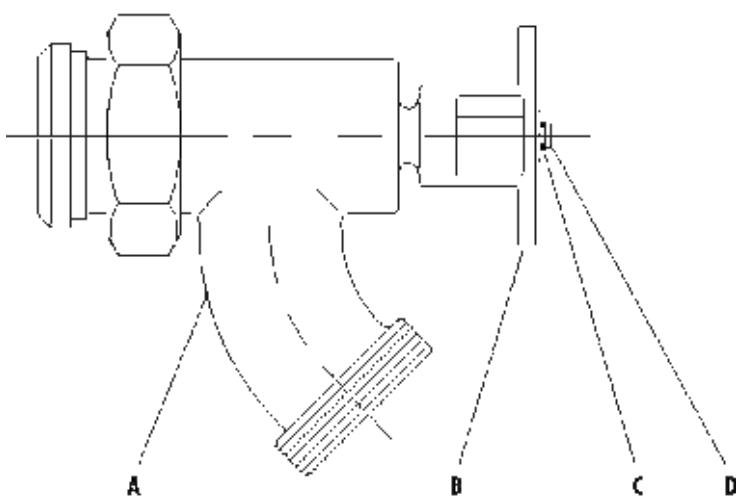
DETAIL NO.	PART NO.	DESCRIPTION
A	13780-00	Body
B	14549-00	Handle
C	13635-00	Clip
D	13705-00	Stem
	3135-00	"O" ring

PRICES EFFECTIVE JULY 4, 1996

PRICES SUBJECT TO CHANGE WITHOUT NOTIFICATION.

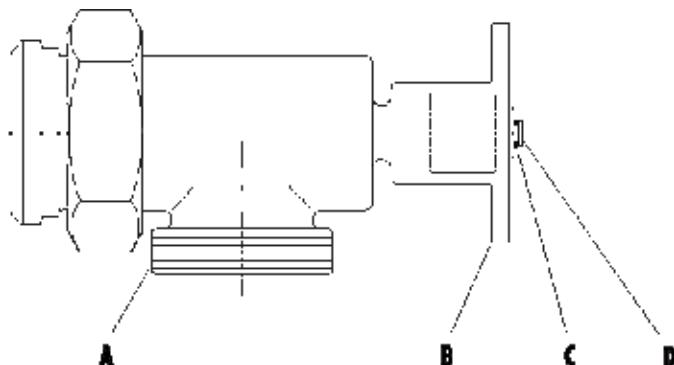


SANITARY TANK VALVES



13758-00 2" 45° FARM COOLER VALVE

DETAIL NO.	PART NO.	DESCRIPTION
A	13746-00	Body
B	14549-00	Handle
C	13635-00	Clip
D	13718-00	Stem
	3135-00	"O" ring



13813-00 2" 90° FARM COOLER VALVE

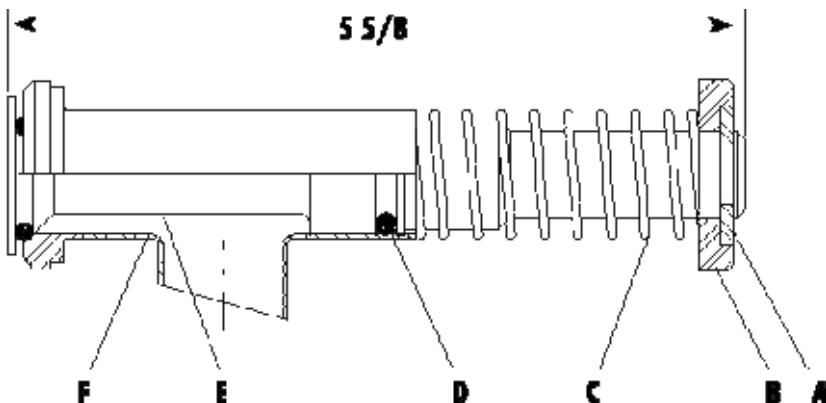
DETAIL NO.	PART NO.	DESCRIPTION
A	13783-00	Body
B	14549-00	Handle
C	13635-00	Clip
D	13718-00	Stem
	3135-00	"O" ring

PRICES EFFECTIVE JULY 4, 1996

PRICES SUBJECT TO CHANGE WITHOUT NOTIFICATION.

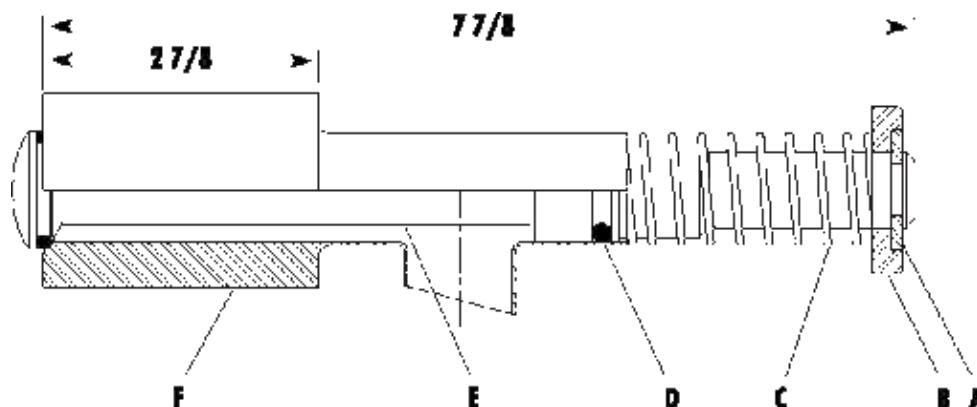
ST Valves

SANITARY SAMPLE VALVES



30SA 1 1/2" x 1" SAMPLE COCK (6905-4B)

DETAIL NO.	PART NO.	DESCRIPTION
A	6881-47	"C" clip
B	6880-47	Handle
C	6882-28	Spring
D	3132-B0	"O" ring (2)
E	6888-47	Stem
F	6843-47	Body



SPUD TYPE SAMPLE COCK (6918-4B)

DETAIL NO.	PART NO.	DESCRIPTION
A	6881-47	"C" clip
B	6880-47	Handle
C	6882-28	Spring
D	3132-B0	"O" ring (2)
E	6892-47	Stem
F	6856-47	Body

PRICES EFFECTIVE JULY 4, 1996

PRICES SUBJECT TO CHANGE WITHOUT NOTIFICATION.

THOMSEN

Quality stainless steel flow equipment.



AIR OPERATED AND MANUAL BUTTERFLY VALVES

Butterfly Valves

Manual and Air Operated

Compact, low cost THOMSEN[®] butterfly valves are of the vertical disc type with a resilient seal. They offer positive shutoff and throttling characteristics, and are ideal for use with a wide variety of media. The premium resilient seals reduce scrubbing and compression set in the discs boss area, greatly increasing valve life. The seals are available in Silicone, Viton and EPDM.

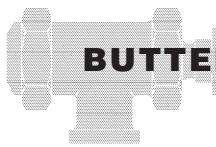
The discs and valve bodies are machined from stainless steel castings and are available from 1" to 4" sizes, in both 304 and 316 material.

THOMSEN[®] butterfly valves are available with air or manual activation. Manual valves are available with either a 2-position or multi-position handle. Air actuated valves are available with switches and solenoid enclosed within a stainless steel cover. They are also available with proximity switches on the disc positioner. Because the valves are symmetrical, manual or air activated valves can be right or left hand operation.

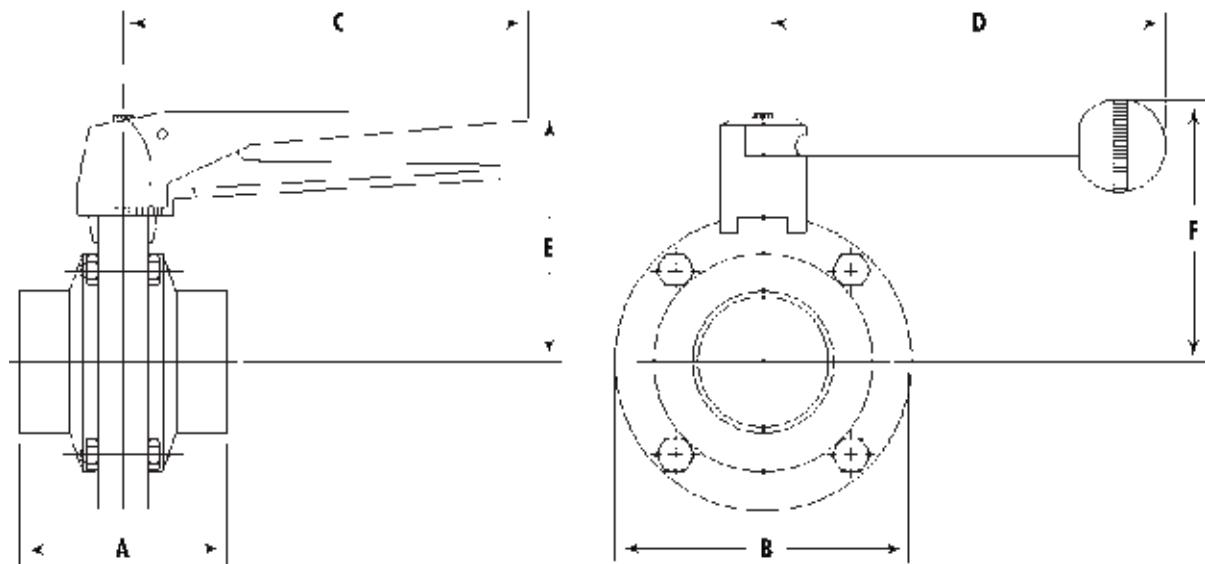
THOMSEN[®]. Over 60 years serving you in the food, dairy, beverage and pharmaceutical industry.



THOMSEN



BUTTERFLY VALVES MANUAL

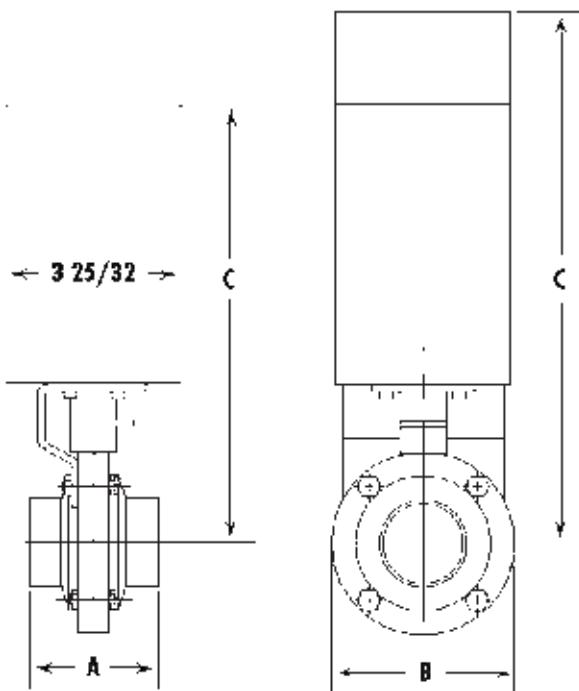
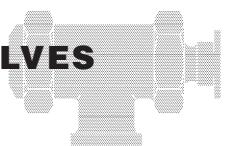


SIZE	A					B	C	D	E	F
	CLAMP	WELD	BEVEL							
1"	2 33/64"	1 37/64"	3"			3 27/64"	5 29/32"	5 29/32"	3 35/64"	3 35/64"
1 1/2"	2 53/64"	1 31/32"	3 13/32"			3 53/64"	5 29/32"	5 29/32"	3 47/64"	3 3/4"
2"	2 53/64"	1 31/32"	3 15/32"			4 21/64"	5 29/32"	5 29/32"	3 31/32"	4 1/64"
2 1/2"	2 63/64"	1 31/32"	3 23/32"			5"	5 29/32"	5 29/32"	4 21/64"	4 11/32"
3"	3 25/64"	2 23/64"	4 11/64"			5 19/32"	5 29/32"	5 29/32"	4 39/64"	4 41/64"
4"	4 3/32"	2 33/64"	4 37/64"			6 3/8"	5 29/32"	5 29/32"	5 3/64"	5 1/32"

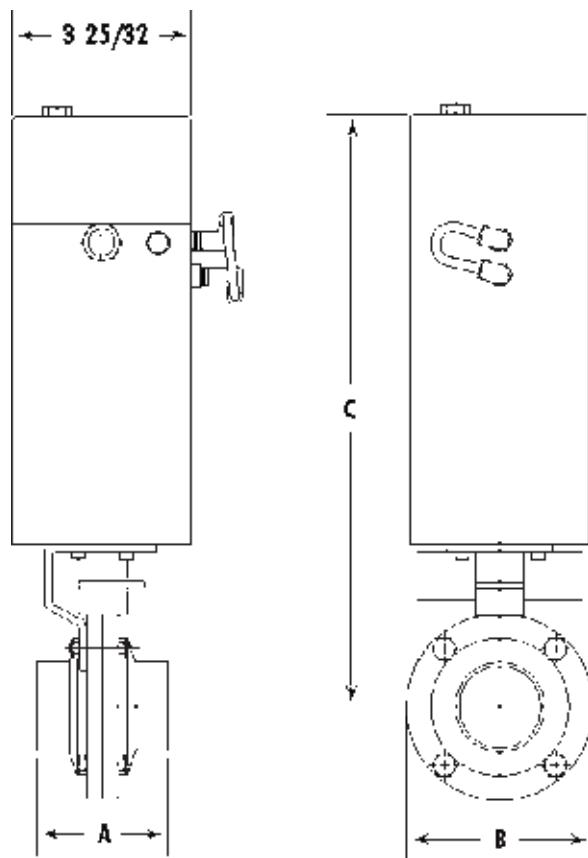
1 1/2" - 4"

BUTTERFLY VALVES

PNEUMATIC



SIZE	ACTUATOR			B	C
	CLAMP	WELD	BEVEL		
1"	2 33/64"	1 37/64"	3"	3 27/64"	9 3/16"
1 1/2"	2 53/64"	1 31/32"	3 13/32"	3 53/64"	9 3/8"
2"	2 53/64"	1 31/32"	3 15/32"	4 21/64"	9 41/64"
2 1/2"	2 63/64"	1 31/32"	3 23/32"	5"	9 31/32"
3"	3 35/64"	2 23/64"	4 11/64"	5 19/32"	10 17/64"
4"	4 3/32"	2 33/64"	4 37/64"	6 3/8"	10 43/64"

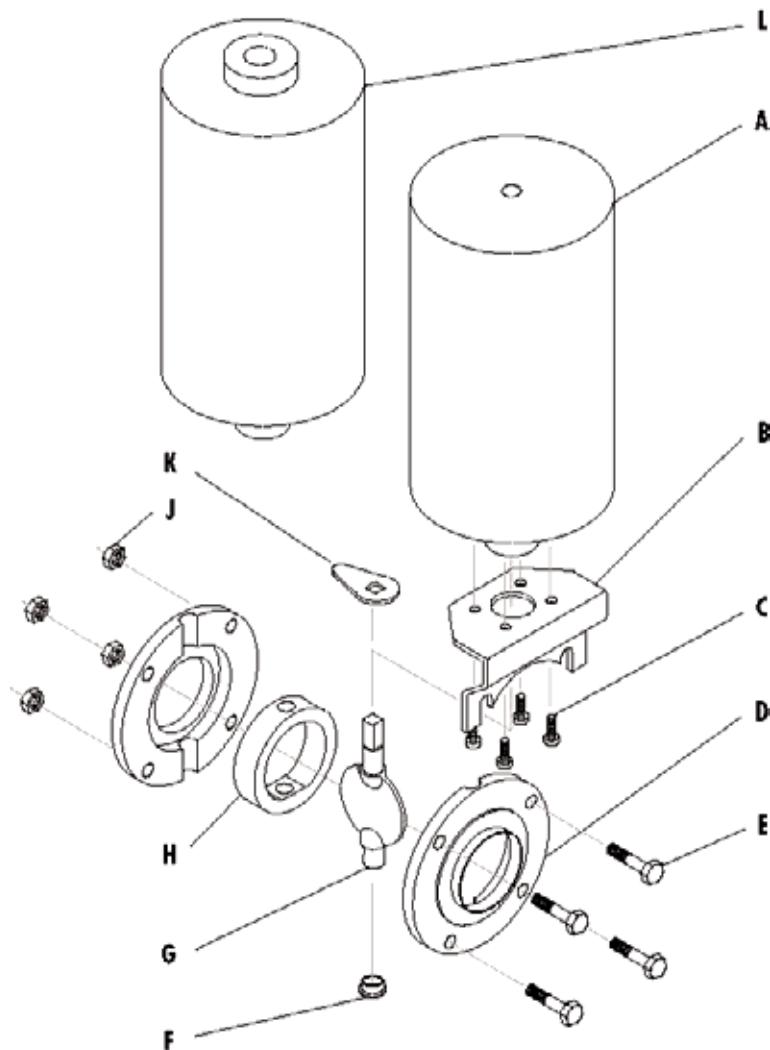


SIZE	ACTUATOR WITH CONTROL TOP			B	C
	CLAMP	WELD	BEVEL		
1"	2 33/64"	1 37/32"	3"	3 27/32"	9 49/64"
1 1/2"	2 53/64"	1 31/32"	3 13/32"	3 53/64"	13 31/32"
2"	2 53/64"	1 31/32"	3 15/32"	4 21/64"	14 1/4"
2 1/2"	2 63/64"	1 31/32"	3 23/32"	5"	14 9/16"
3"	3 35/64"	2 33/64"	4 11/16"	5 19/32"	14 7/8"
4"	4 3/32"	2 33/64"	4 37/64"	6 3/8"	15 23/64"

100%



**BUTTERFLY VALVES
PNEUMATIC**



ITEM	QTY.	DESCRIPTION	1"	1 1/2"	2"	2 1/2"	3"	4"
A	1	Actuator Air to Spring	31077-40	31077-40	31077-40	31077-40	31077-40	31077-40
A	1	Actuator Air to Air	31078-40	31078-40	31078-40	31078-40	31078-40	31078-40
B	1	Actuator Bracket	31080-40	31081-40	31082-40	31083-40	31084-40	31085-40
C	4	Bracket Screw	31067-40	31067-40	31067-40	31067-40	31067-40	31067-40
D	2	Body Half Weld	31030-00	31031-00	31032-00	31033-00	31034-00	31035-00
D	2	Body Half Clamp	31040-00	31041-00	31042-00	31043-00	31044-00	31045-00
D	2	Body Half Acme	31050-00	31051-00	31052-00	31053-00	31054-00	31055-00
E	4	Body Bolt	31060-40	31060-40	31060-40	31061-40	31062-40	31064-40
F	1	Bottom Plug	31071-00	31072-00	31072-00	31072-00	31073-00	31073-00
G	1	Disc	31010-67	31011-67	31012-67	31013-67	31014-67	31015-67
H	1	Seal (EPDM, Silicone, Viton)	31000-00	31001-00	31002-00	31003-00	31004-00	31005-00
J	4	Body Nut	31065-40	31065-40	31065-40	31065-40	31065-40	31065-40
K	1	Position Indicator	31098-40	31098-40	31098-40	31098-40	31098-40	31098-40
L	1	Actuator Control Top ATS	31075-40	31075-40	31075-40	31075-40	31075-40	31075-40
L	1	Actuator Control Top ATA	31076-40	31076-40	31076-40	31076-40	31076-40	31076-40

ATS - AIR TO SPRING

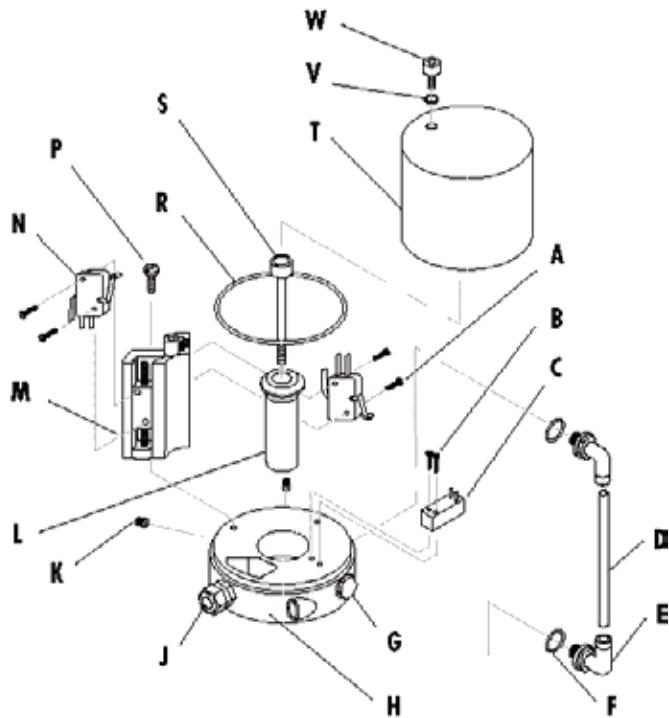
ATA - AIR TO AIR

PRICES EFFECTIVE JULY 4, 1996

PRICES SUBJECT TO CHANGE WITHOUT NOTIFICATION.



BUTTERFLY VALVES CONTROL MOUNTS

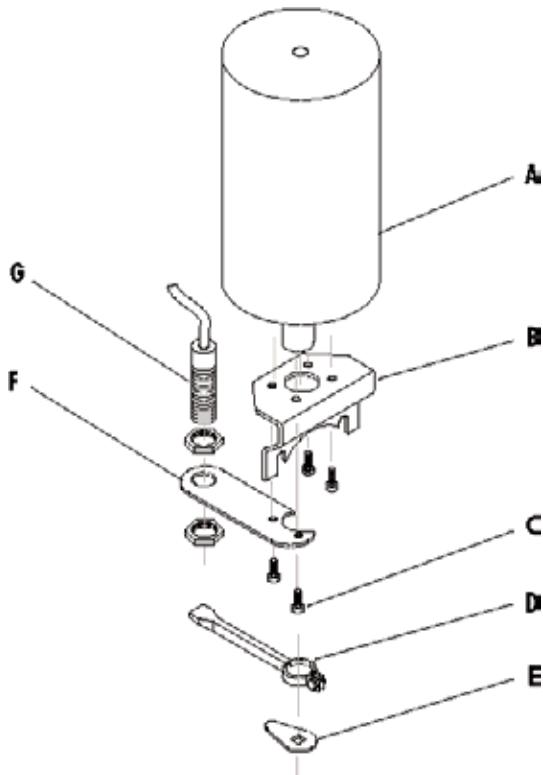


CONTROL TOP INTERNAL SWITCH CONTROLS					
ITEM	QTY.	DESCRIPTION	ATO	ATC	ATA
A	4	Switch Screw	31980-40	31980-40	31980-40
B	2	Solenoid Screw	31981-40	31981-40	31981-40
C	1	Solenoid	31086-40	31086-40	31087-40
D	1	Air Tube	31982-00	31982-00	31983-00
E	2	90° Tube Connection	31984-40	31984-40	31984-40
F	2	"O" Ring	31985-B0	31985-B0	31985-B0
G	1	Base Plug	31986-40	31986-40	31986-40
H	1	Base	31095-00	31095-00	31095-00
J	1	Wire Connector	31987-00	31987-00	31987-00
K	2	Set Screw	31988-40	31988-40	31988-40
L	1	Switch Actuator	31989-40	31989-40	31989-40
M	1	Switch Mtg. Bracket	31990-00	31990-00	31990-00
N	2	Micro Switch	31088-00	31088-00	31088-00
N	2	Proximity Switch	31089-00	31089-00	31089-00
P	1	Bracket Screw	31991-40	31991-40	31991-40
R	1	Cover "O" Ring	31992-B0	31992-B0	31992-B0
S	1	Switch Act. Bolt	31993-40	31993-40	31993-40
T	1	Switch Cover	31094-00	31094-00	31094-00
V	1	Cover Gasket	31994-00	31994-00	31994-00
W	1	Cover Screw	31995-40	31995-40	31995-40

ATO = AIR TO OPEN

ATC = AIR TO CLOSE

ATA = AIR TO AIR



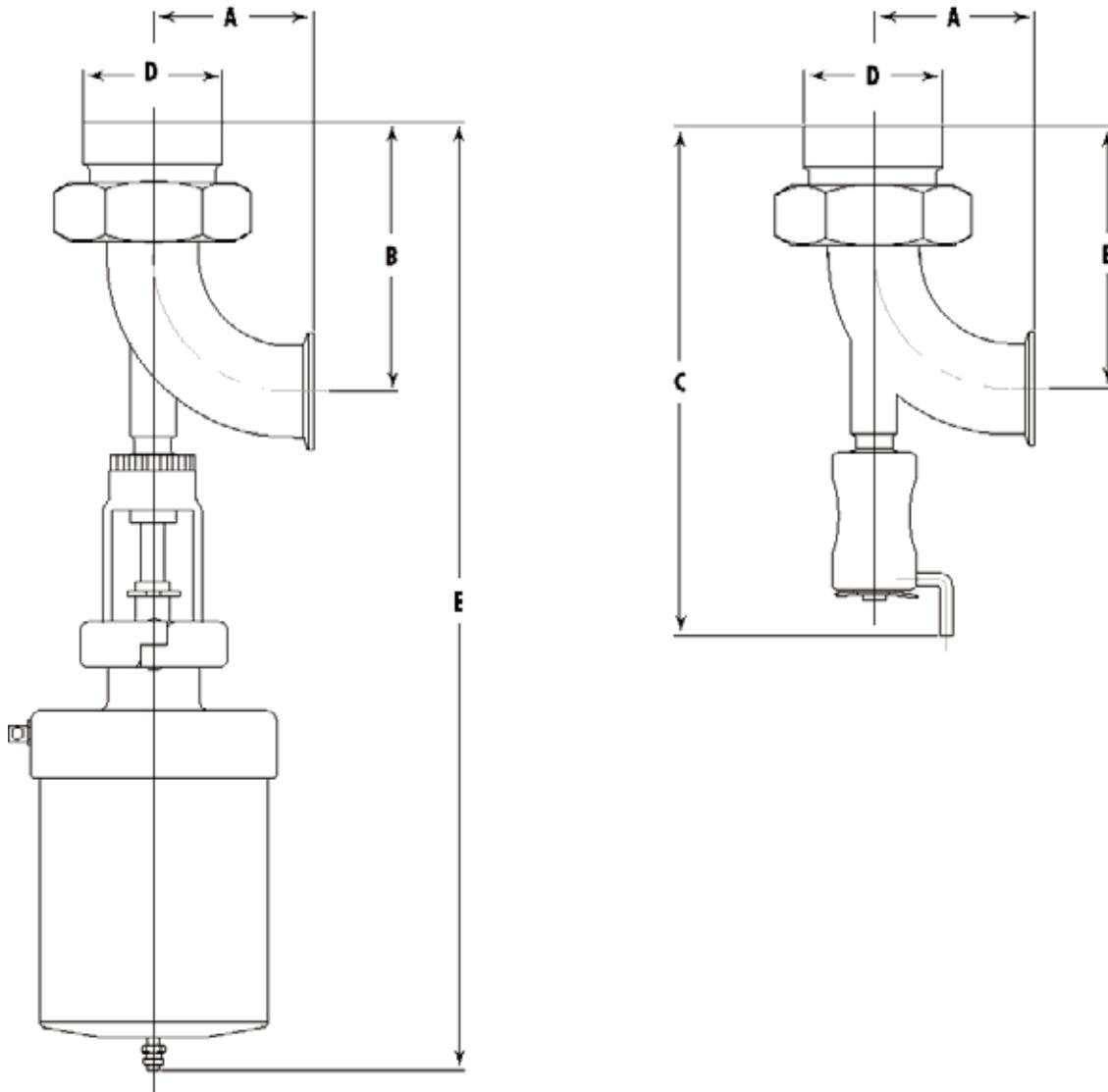
EXTERNAL PROXIMITY SWITCH CONTROLS WITHOUT CONTROL TOP					
ITEM	QTY.	DESCRIPTION	1"	1 1/2"	2"
A	1	Air Actuator Air to Spring	31077-40	31077-40	31077-40
A	1	Air Actuator Air to Air	31078-40	31078-40	31078-40
B	1	Actuator Bracket	31080-40	31081-40	31082-40
C	4	Bracket Screw	31067-00	31067-00	31067-00
D	1	Pickup	32110-40	32110-40	32110-40
E	1	Position Indicator	31098-40	31098-40	31098-40
F	1	Switch Bracket	32109-40	32109-40	32109-40
G	1	Proximity Switch w/Nuts	31097-40	31097-40	31097-40

ITEM	QTY.	DESCRIPTION	2 1/2"	3"	4"
A	1	Air Actuator Air to Sprint	31077-40	31077-40	31077-40
A	1	Air Actuator Air to Air	31078-40	31078-40	31078-40
B	1	Actuator Bracket	31083-40	31084-40	31085-40
C	4	Bracket Screw	31067-00	31067-00	31067-00
D	1	Pickup	32110-40	32110-40	32110-40
E	1	Position Indicator	31098-40	31098-40	31098-40
F	1	Switch Bracket	32109-40	32109-40	32109-40
G	1	Proximity Switch w/Nuts	31097-40	31097-40	31097-40



PRICE LIST

KETTLE VALVES

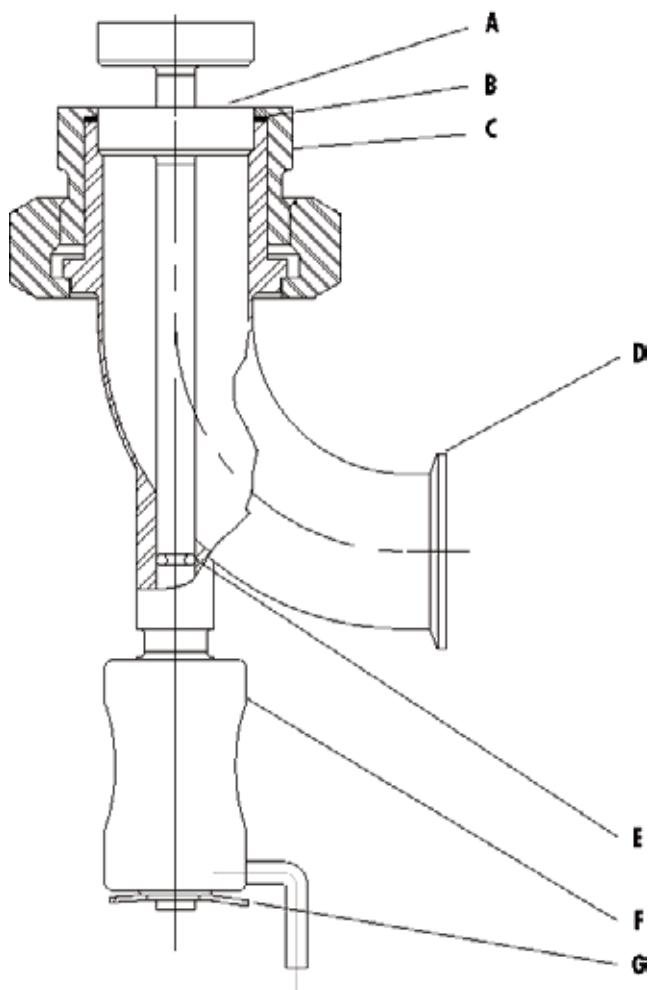


DIMENSION	1 1/2"	2"	2 1/2"	3"
A	2 3/4"	3 1/2"	4 1/4"	5"
B	4 3/4"	5 1/2"	6 1/4"	7"
C	10 5/8"	11 1/2"	12 3/4"	16 1/8"
D	2 5/8"	3 1/8"	3 1/2"	4 1/4"
E	20"	20 1/2"	21 1/4"	23 3/4"
Complete Valve - Manual	13640-6B	13641-6B	13642-6B	13643-6B
PRICE	702.00	786.00	920.00	1115.00
Complete Valve - Air	13581-6B	13583-6B	13585-6B	13587-6B
PRICE	1572.00	1661.00	1767.00	2037.00

PRICES EFFECTIVE JULY 4, 1996
PRICES SUBJECT TO CHANGE WITHOUT NOTIFICATION.



KETTLE VALVES
HAND OPERATED

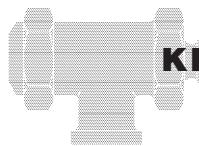


90° CLAMP ELBOW VALVE - MANUAL

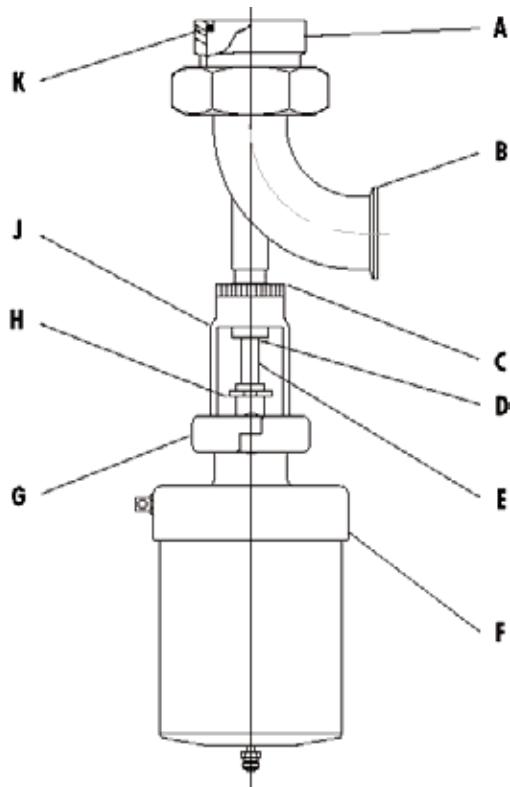
ITEM	MATERIAL	1 1/2"	2"	2 1/2"	3"
A - Stem	316SS/BUNA	13512-67	13513-67	13514-67	13515-67
B - Gasket	Teflon	3236-T0	3254-T0	3264-T0	3284-T0
C - Tank Spud	316SS	13460-67	13461-67	13462-67	13463-67
D - Body	316SS	13565-67	13566-67	13567-67	13568-67
E - "O" Ring	BUNA	3135-B0	3135-B0	3135-B0	3129-B0
F - Handle	304SS	13631-47	13631-47	13631-47	13632-47
G - Clip	304SS	13635-48	13635-48	13635-48	13635-48
Complete Valve		13640-6B	13641-6B	13642-6B	13643-6B

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THE K VALVE COMPANY



KETTLE VALVES PNEUMATIC



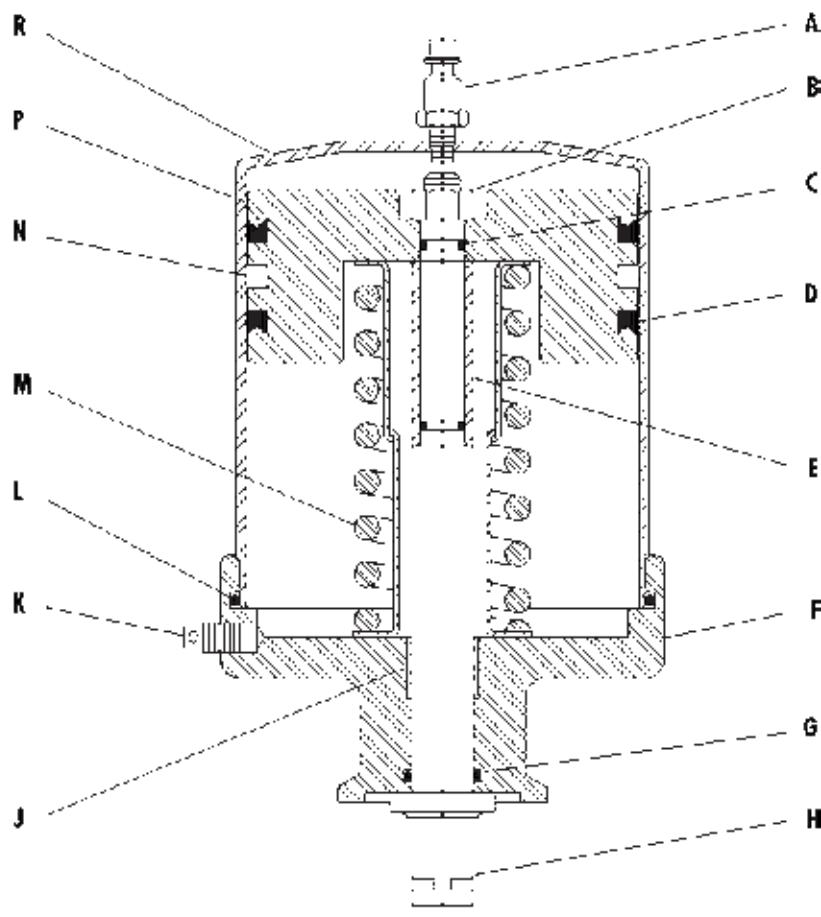
90° CLAMP ELBOW VALVE - AIR ACTUATED

ITEM	MATERIAL	1 1/2"	2"	2 1/2"	3"
A - Tank Spud	316SS	13460-67	13461-67	13462-67	13463-67
B - Body	316SS	13565-67	13566-67	13567-67	13568-67
C - Lock Ring	304SS	14610-40	14610-40	14610-40	2240-37
D - "O" Ring	BUNA	3135-B0	3135-B0	3135-B0	3129-B0
E - Stem	316SS/BUNA	13502-67	13503-67	13504-67	13507-67
F - Actuator	304SS	13120-47	13120-47	13120-47	13120-47
G - Clamp	304SS	3522-48	3522-48	3522-48	3522-48
H - Clip	316SS	9345-60	9345-60	9345-60	9345-60
J - Yoke	304SS	13467-47	13467-47	13467-47	13475-47
K - Gasket	Teflon	3236-T0	3254-T0	3264-T0	3284-T0
Complete Valve		13581-6B	13583-6B	13585-6B	13587-6B

PRICES EFFECTIVE JULY 4, 1996
PRICES SUBJECT TO CHANGE WITHOUT NOTIFICATION.



PNEUMATIC KETTLE VALVE ACTUATOR



AIR ACTUATOR (AIR TO CLOSE SHOWN) 13120

ITEM	QTY.	PART NO.	DESCRIPTION	MATERIAL
A	1	13134-40	Quick Connect Plug	304SS
B	1	13136-40	7/16 Locknut	304SS
C	2	3119-B0	O-Ring	BUNA
D	2	13131-B0	1/4 V-Cup	BUNA
E	1	13126-40	Spacer Sleeve	304SS
F	1	13138-47	Actuator Base	304SS
G	1	3133-B0	"O" Ring	BUNA
H	1	13139-47	Actuator Stem	304SS
J	1	13133-40	Actuator Bushing	304SS
K	1	13135-40	Air Release Plug	Nylon
L	1	3184-B0	"O" Ring	BUNA
M	1	13125-40	Spring Cage Assembly	304SS
N	1	13132-F0	Lubricator Strip	Felt
P	1	13127-90	Piston	Alum.
R	1	13130-47	Actuator Cylinder	304SS

PISTON, SLEEVE AND SPRING TO BE REVERSED FOR AIR TO OPEN

PRICES EFFECTIVE JULY 4, 1996

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THOMSEN

Quality stainless steel flow equipment.



FILTERS AND STRAINERS

Filters and Strainers

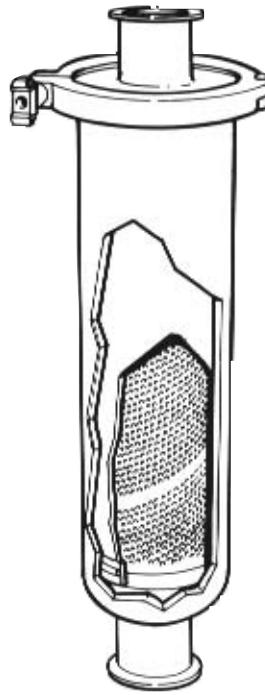
THOMSEN[®] filters and strainers are constructed from either type 304 or 316 stainless steel and polished to a smooth, clean sanitary finish. They are easy to assemble and disassemble for fast, easy cleaning. Both filter and strainer units are available for single, twin or multiple installations.

THOMSEN[®] filters and strainers are made in three standard lengths with 1-1/2" through 3" clamp or bevel seat connections. Special connections are available for various applications. THOMSEN[®] filters and strainers are available in both inline and side inlet designs.

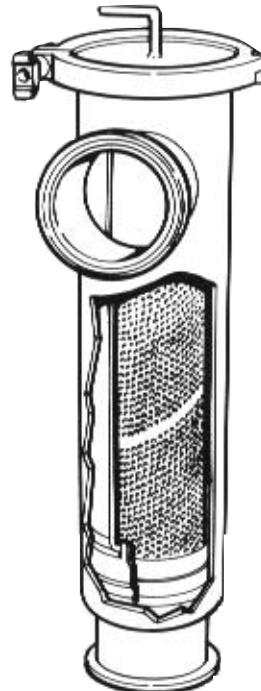
Filters normally use a 1/4" perforation for the back up of a wire mesh overscreen. Overscreens are available in various mesh/micron sizes. The size of the mesh depends on the size of the particulate you wish to remove from the product.

Strainers are available with 1/4, 1/8, 3/32 or 1/16 inch holes. Strainers also may use a slip on cloth bag and can be used as a filter. Bags are available for both hot and cold products.

THOMSEN[®]. Over 60 years serving you in the food, dairy and beverage industry.



THOMSEN[®] inline design filter allows straight through flow in either the horizontal or vertical position. No tools are needed. To disassemble and clean the filter or strainer, just remove the clamp and pull the inner assembly from the housing and clean or replace the media.



THOMSEN[®] side inlet design allows the filter or strainer to be cleaned without disconnecting it from the line. No tools are needed. To disassemble and clean the filter or strainer, just remove the clamp and pull the inner assembly from the housing and clean or replace the media.

3A authorized

THOMSEN

Filters and Strainers

Filters and Strainers Constructed of Stainless Steel for:

**Service
Quality
Dependability**

Proper Filtering

A filter or strainer of this type is primarily designed for removal of various size particles from the product. It is not intended to remove odors or impurities.

To give actual performance figures would be difficult since capabilities vary according to 1) line pressure and, 2) size and amount of particles in the product (particles tend to clog the filter media which in turn, reduces product flow).

When the pressure drop through a filter unit becomes 2 to 5 psi over normal, filter media should be changed.

A line filter of this type can be installed in a horizontal, vertical or inverted position and should be placed in a convenient location for ease of cleaning.

When used in conjunction with a high speed or positive pump, protect the unit from damage by using a bypass or pressure relief system.



Twin Filter



Use in tandem for uninterrupted processing applications

Available in clamp type or bevel seat

The twin filter assembly at left consists of: 2 identical filter units, 4 sanitary elbows, 2 three-way sanitary plug valves, 1 polished stainless steel stand and 4 stainless steel filter hangers.

Twin filter assemblies consist of a stand, supporting inlet and outlet three-way valves, connecting elbows and any choice of filter assemblies. Product flow may be diverted to one filter while its twin is being cleaned, allowing for uninterrupted processing. Multiple stage filter units may be designed to progressively filter product particles in series by using various filtering media.

WIRE CLOTH OVERSCREEN†				
MESH	OPEN SPACE	WIRE DIAMETER	RELATIVE OPEN AREA	MICRON RATING
20	.035	.016	46.2%	864
30	.021	.013	37.1%	538
60	.011	.0075	30.5%	282
80	.007	.0055	31.4%	179
100	.006	.0045	30.2%	153
150	.004	.0026	37.4%	102
250	.0024	.0016	36.0%	62
325	.0017	.0014	30.0%	44

†Many other wire diameters and twills are available on request

SLIP-ON FILTER MEDIA

Double Knapped Flannel Bag for hot product application (250 micron rating, 60 mesh)

Unbleached Muslin for cold product application (283 micron rating, 50 mesh)

ADDITIONAL FILTRATION MEDIA SELECTIONS

Wedgewire Strainers - offered both in inline and side-inlet design, wedgewire strainers are ideal for extended service applications, C.I.P., cleanable, can be backflushed, and offer straining sizes equivalent to standard wire mesh overscreens.

Porous Metal Inner Assemblies - available where filtering capabilities finer than 44 micron are required. Porous metal is an excellent choice when greater degrees of filtration and clarity must be achieved.



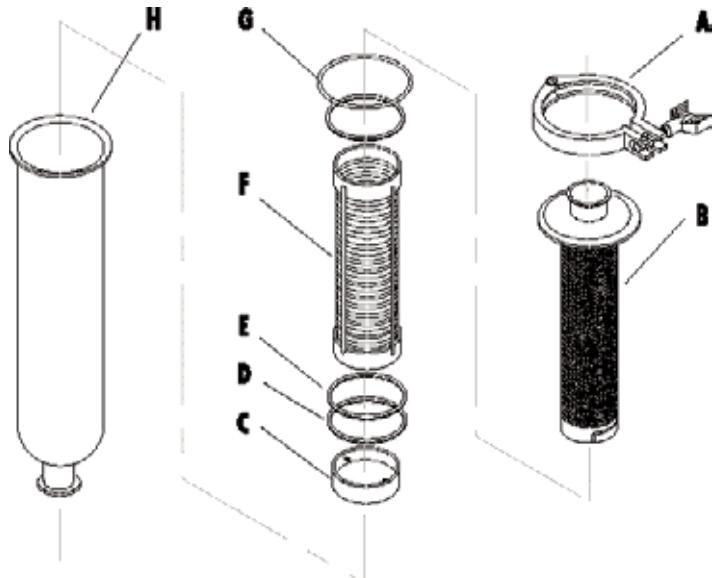


INLINE FILTER COMPONENTS

INLINE FILTER, CLAMP CONNECTIONS 1/4" PERFORATIONS W/OVERSCREEN

ITEM	QTY.	DESCRIPTION	SHORT	MEDIUM	LONG
A	1	Clamp	3525-48	3525-48	3525-48
B	1	1 1/2" Inner Assembly	4090-47	4091-47	4092-47
B	1	2" Inner Assembly	4093-47	4094-47	4095-47
B	1	2 1/2" Inner Assembly	4096-47	4097-47	4098-47
B	1	3" Inner Assembly	4099-47	4100-37	4101-47
C	1	Filter End Cap	4080-67	4080-67	4080-67
D	1	Bearing Gasket	3285-T0	3285-T0	3285-T0
E	2	Gasket	3284-B0	3284-B0	3284-B0
F	1	Overscreen	4135-4**	4136-4**	4137-4**
G	1	"O" Ring	3176-B0	3176-B0	3176-B0
H	1	1 1/2" Housing	3800-47	3801-47	3802-47
H	1	2" Housing	3806-47	3807-47	3808-47
H	1	2 1/2" Housing	3812-47	3813-47	3814-47
H	1	3" Housing	3818-47	3819-47	3820-47

**MESH A = 18 D = 60 G = 150 K = 325
 B = 20 E = 80 H = 200 L = 20
 C = 30 F = 100 J = 250

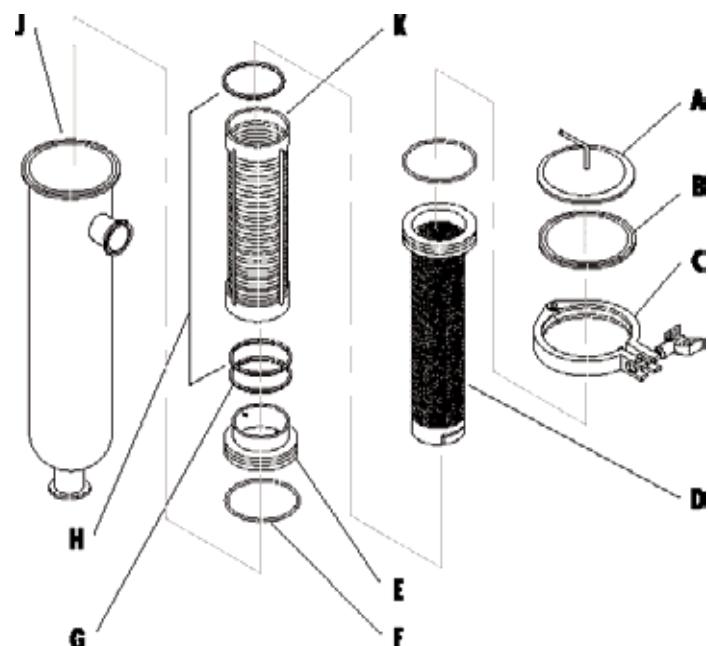


SIDE INLET FILTER COMPONENTS

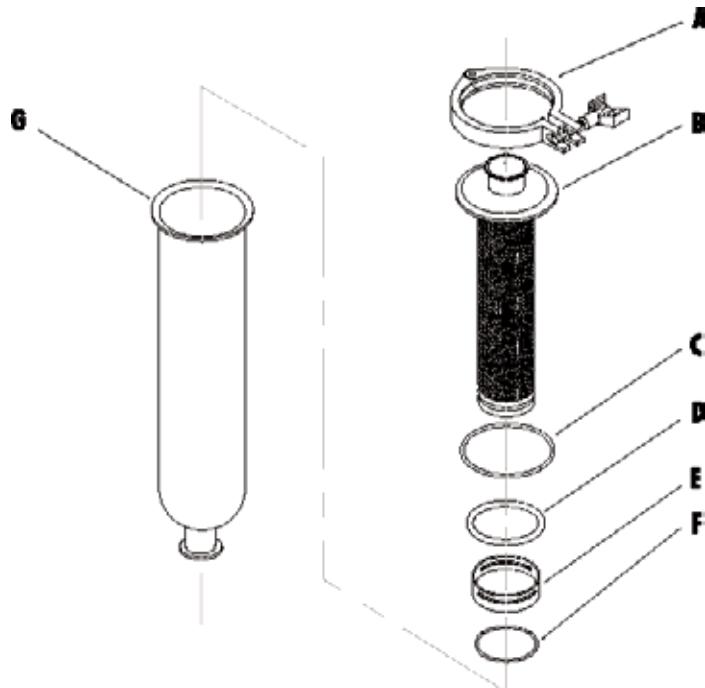
SIDE INLET FILTER, CLAMP CONNECTIONS 1/4" PERFORATIONS

ITEM	QTY.	DESCRIPTION	SHORT	MEDIUM	LONG
A	1	Cap Handle	4888-47	4888-47	4888-47
B	1	TS/40 Gasket	3099-B0	3099-B0	3099-B0
C	1	Clamp	3525-48	3525-48	3525-48
D	1	Inner Assembly	4879-47	4882-47	4876-47
E	1	End Cap	4862-60	4862-60	4862-60
F	2	"O" Ring	3172-B0	3172-B0	3172-B0
G	1	Gasket	3285-T0	3285-T0	3285-T0
H	2	Gasket	3274-B0	3274-B0	3274-B0
J	1	1 1/2" Housing	4897-47	4919-47	4891-47
J	1	2" Housing	4893-47	4916-47	4903-47
J	1	2 1/2" Housing	4914-47	4938-47	4915-47
J	1	3" Housing	4896-47	4928-47	4908-47
K	1	Overscreen	4135-4**	4136-4**	4137-4**

**MESH A = 18 D = 60 G = 150 K = 325
 B = 20 E = 80 H = 200 L = 20
 C = 30 F = 100 J = 250

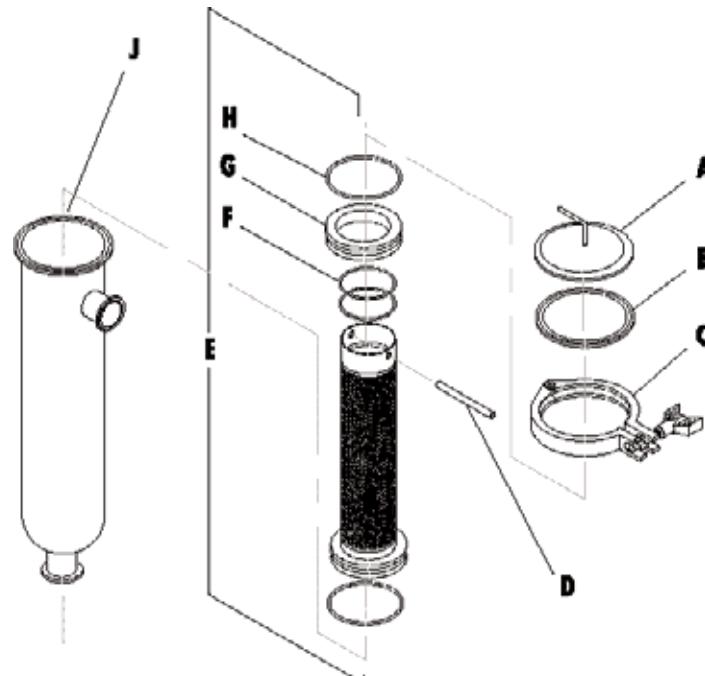


FILTERS & STRAINERS



INLINE STRAINER COMPONENTS

INLINE STRAINER, CLAMP CONNECTIONS 1/4" PERFORATIONS					
ITEM	QTY.	DESCRIPTION	SHORT	MEDIUM	LONG
A	1	Clamp	3525-48	3525-48	3525-48
B	1	1 1/2" Inner Assembly	3862-47	3867-47	3872-47
B	1	2" Inner Assembly	3830-47	3835-47	3840-47
B	1	2 1/2" Inner Assembly	3891-47	3896-47	3901-47
B	1	3" Inner Assembly	3906-47	3911-37	3916-47
C	1	"O" Ring	3176-B0	3176-B0	3176-B0
D	1	"O" Ring	3167-B0	3167-B0	3167-B0
E	1	End Cap	3825-67	3825-67	3825-67
F	1	"O" Ring	3169-B0	3169-B0	3169-B0
G	1	1 1/2" Housing	3800-47	3801-47	3802-47
G	1	2" Housing	3806-47	3807-47	3808-47
G	1	2 1/2" Housing	3812-47	3813-47	3814-47
G	1	3" Housing	3818-47	3819-47	3820-47



SIDE INLET STRAINER COMPONENTS

SIDE INLET STRAINER, CLAMP CONNECTIONS 1/4" PERFORATIONS					
ITEM	QTY.	DESCRIPTION	SHORT	MEDIUM	LONG
A	1	Cap Handle	4888-47	4888-47	4888-47
B	1	TS/40 Gasket	3099-B0	3099-B0	3099-B0
C	1	Clamp	3525-48	3525-48	3525-48
D	1	Handle Pin	4561-67	4561-67	4561-67
E*	1	Inner Assy 1/4 Perf.*	4568-4B	4573-4B	4578-4B
F	2	"O" Ring	3167-B0	3167-B0	3167-B0
G	1	Removable "O" Ring End	4560-60	4560-60	4560-60
H	2	"O" Ring	3172-B0	3172-B0	3172-B0
J	1	1 1/2" Housing	4897-47	4919-47	4891-47
J	1	2" Housing	4893-47	4916-47	4903-47
J	1	2 1/2" Housing	4914-47	4938-47	4915-47
J	1	3" Housing	4896-47	4928-47	4908-47

*INNER ASSEMBLY (E) INCLUDES ITEMS D, F, G AND H.



THOMSEN

Quality stainless steel flow equipment.



SPECIALS

Specials

THOMSEN[®] is the name to turn to when you need custom fabricated stainless steel parts. Whether you need one piece or one thousand pieces, Thomsen has the expertise to do it right the first time. With the combined experience of over 200 years in stainless steel fabrication, you can always be assured of the highest quality parts possible.

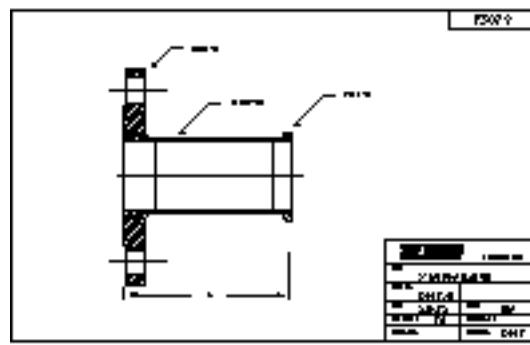
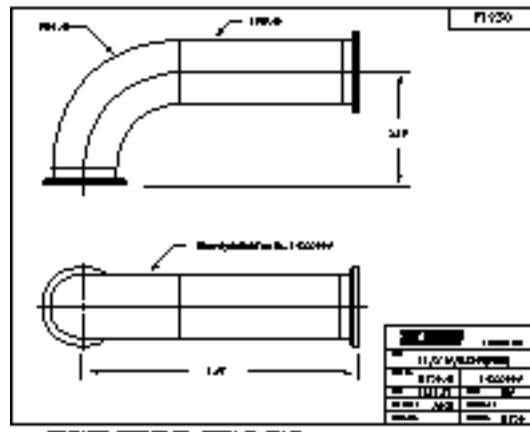
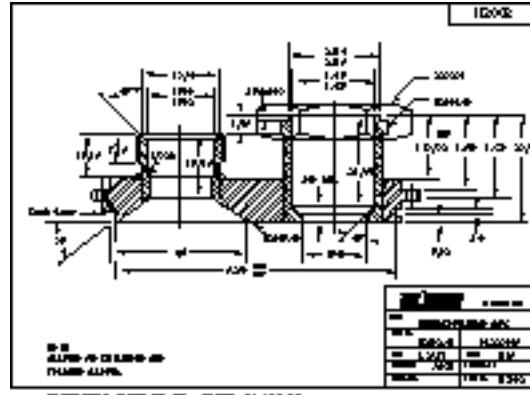
In addition, THOMSEN[®]'s engineering staff can assist you with the most economical design for your particular product.

For over 60 years, L. C. Thomsen has been supplying high quality products to the dairy, food and beverage industry. When you think of THOMSEN[®], three words come to mind: excellence, quality and teamwork.

Excellence and quality are best achieved through teamwork and a shared vision. At THOMSEN[®] we strive to:

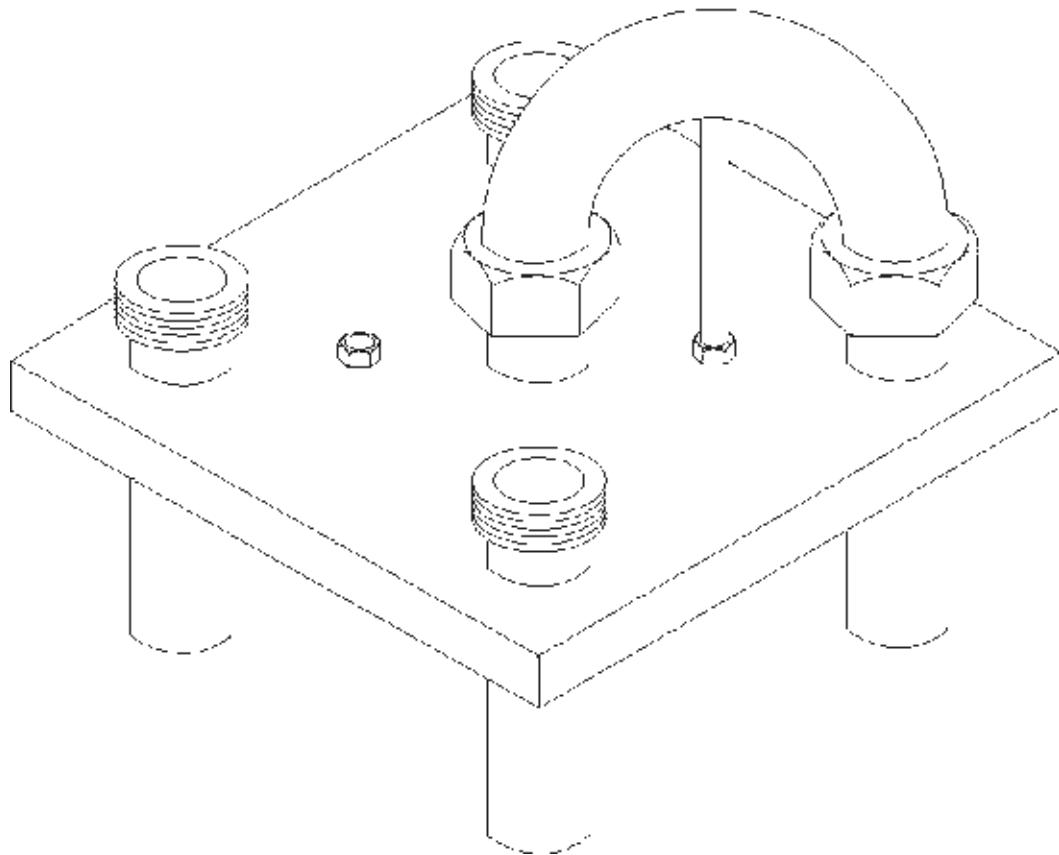
- Manufacture the finest quality sanitary equipment in the marketplace.
- Deliver on time.
- Concentrate on customer care.
- Provide the lowest cost possible.

When you need custom fabricated or designed products, the only name to remember is THOMSEN[®], the trusted name for sanitary fittings, pumps and valves for the dairy, food and beverage industries for over 60 years.



THOMSEN

Transverter Panels



Thomsen Tranverters offer users a low-cost, highly efficient means of manually changing product flow where length of runs or conditions do not warrant investment in automatic air valves. Tranverter panels permit change-overs in just one minute. They offer a choice of J.P., Acme, clamp type, or D.C. connections.

With the addition of stainless steel proximity switches, the panels offer far more versatility, safety and convenience. Users can utilize the switches to operate warning or signal lights for pumps or valves. Signal can be used to indicate which tank or line is being used...to guard against contamination.

Proximity switches are threaded-type with a nominal detection range of 3/16". They will operate in temperatures from -13° to 176°F., and on AC or DC voltages from 20 to 250. The probe is mounted on the panel's return bend, and the switch in the body of the panel. Since no contact is needed between switch and probe, the swing of the return is not restricted. Switches can be included for every station on the panel, or only on specified stations.



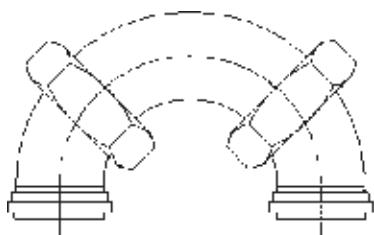
SPECIALS

TRANSVERTER FLOW PANELS



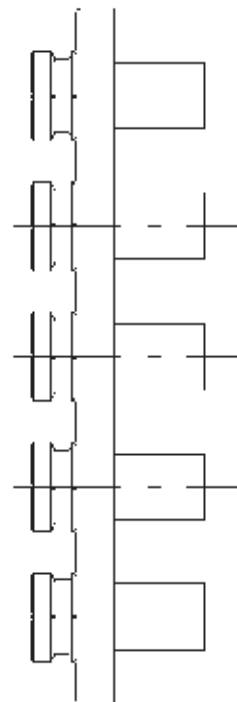
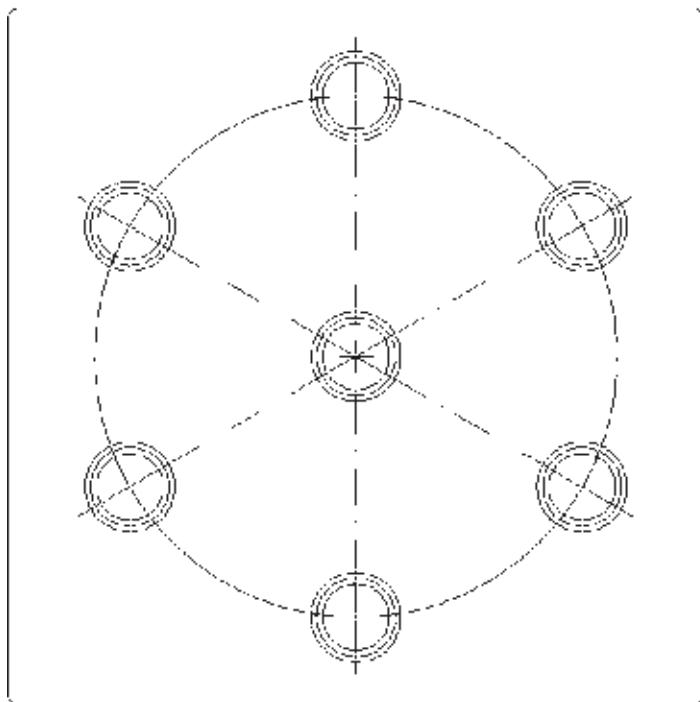
FEATURES

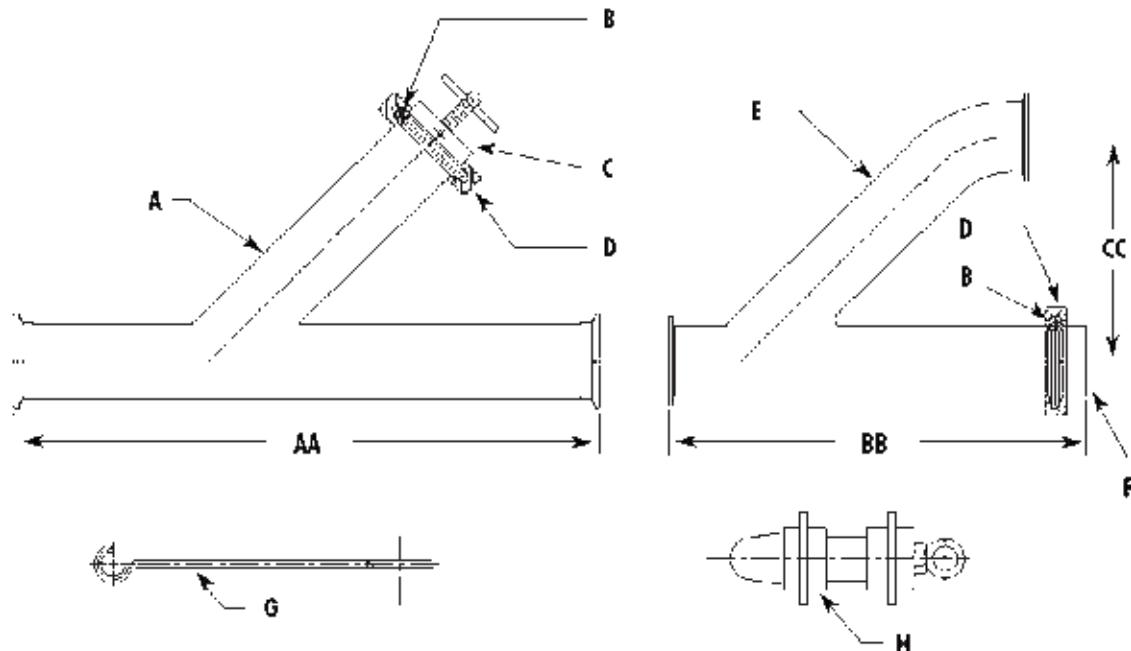
- 1 1/2" thru 4"
- Available in 304 or 316
- 2 thru 8 stations standard
- Proximity switches available
- 11 gauge (.134) panel



ONS

- 20-250 volt AC or DC
- 3/16 detection range
- -13° to 176°F. operating temp.
- Normally open
- Stainless steel body





THOMSEN RECOVERY SYSTEMS

- Tube O.D. sizes 1 1/2" to 4"
- "Pig" will pass through elbows and tees
- Clamp connections
- Operates with air pressure
- Handles viscous products
- Type 316 stainless steel
- Recovers product otherwise lost
- Pays for itself
- Magnetic option for tracking "pig"
- Magnetic option for tracking

DETAIL	DESCRIPTION
A	Catcher body
B	Gasket
C	Relief valve assembly
D	Clamp
E	Launcher assembly
F	Air inlet
G	Retriever handle
H	Pig assembly

SIZE	PART NO.	AA	BB	CC
1 1/2"	1292-00	11 11/16"	8 5/16"	5 1/16"
2"	1293-00	13 13/16"	10 3/8"	5 29/32"
2 1/2"	1294-00	16"	11 21/32"	7 3/32"
3"	1295-00	18 1/4"	12 15/32"	7 9/16"
4"	1296-00	20 1/2"	13 5/8"	9 11/32"



SPECIALS
**RECOVERY SYSTEMS
STAINLESS STEEL**
COMPLETE ASSEMBLY

SIZE	PART NO.
1 1/2"	1292-00
2"	1293-00
2 1/2"	1294-00
3"	1295-00
4"	1296-00

REPLACEMENT PARTS

SIZE	DESCRIPTION	PART NO.
1 1/2"	Pig catcher assembly	1300-6B
1 1/2"	Pig launcher assembly	1333-6B
1 1/2"	Pig assembly	1230-B0
1 1/2"	Magnetic Pig assembly	1230-BM
1 1/2"	Retriever handle	1251-61
1 1/2"	Air release assembly only	1320-6B
1 1/2"	Wiper	1234-B0
2"	Pig catcher assembly	1301-6B
2"	Pig launcher assembly	1334-6B
2"	Pig assembly	1239-B0
2"	Magnetic Pig assembly	1239-BM
2"	Retriever handle	1251-61
2"	Air release assembly only	1321-6B
2"	Wiper	1243-B0
2 1/2"	Pig catcher assembly	1302-6B
2 1/2"	Pig launcher assembly	1335-6B
2 1/2"	Pig assembly	1255-B0
2 1/2"	Magnetic Pig assembly	1255-BM
2 1/2"	Retriever handle	1251-61
2 1/2"	Air release assembly only	1322-6B
2 1/2"	Wiper	1259-B0
3"	Pig catcher assembly	1303-6B
3"	Pig launcher assembly	1336-6B
3"	Pig assembly	1264-B0
3"	Magnetic Pig assembly	1264-BM
3"	Retriever handle	1251-61
3"	Air release assembly only	1323-6B
3"	Wiper	1268-B0
4"	Pig catcher assembly	1304-6B
4"	Pig launcher assembly	1337-6B
4"	Pig assembly	1274-B0
4"	Magnetic Pig assembly	1274-BM
4"	Retriever handle	1251-61
4"	Air release assembly only	1324-6B
4"	Wiper	1278-B0

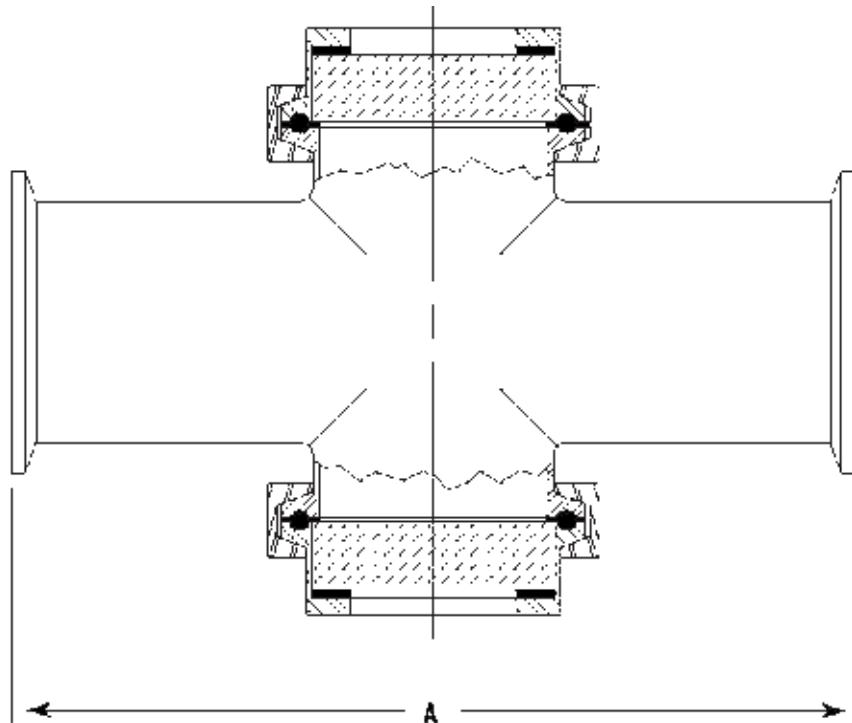
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PRICES SUBJECT TO CHANGE WITHOUT NOTIFICATION.



SPECIALS SIGHT GLASS

180° SIGHT GLASSES



SIZE	PART NO.	DESCRIPTION	A	MAX PSI
1 1/2"	2935-00	180° Sight glass	4 1/4"	100
2"	2936-00	180° Sight glass	4 7/8"	100
2 1/2"	2937-00	180° Sight glass	5 11/16"	100
3"	2938-00	180° Sight glass	6 3/16"	100
4"	2939-00	180° Sight glass	8 5/16"	100

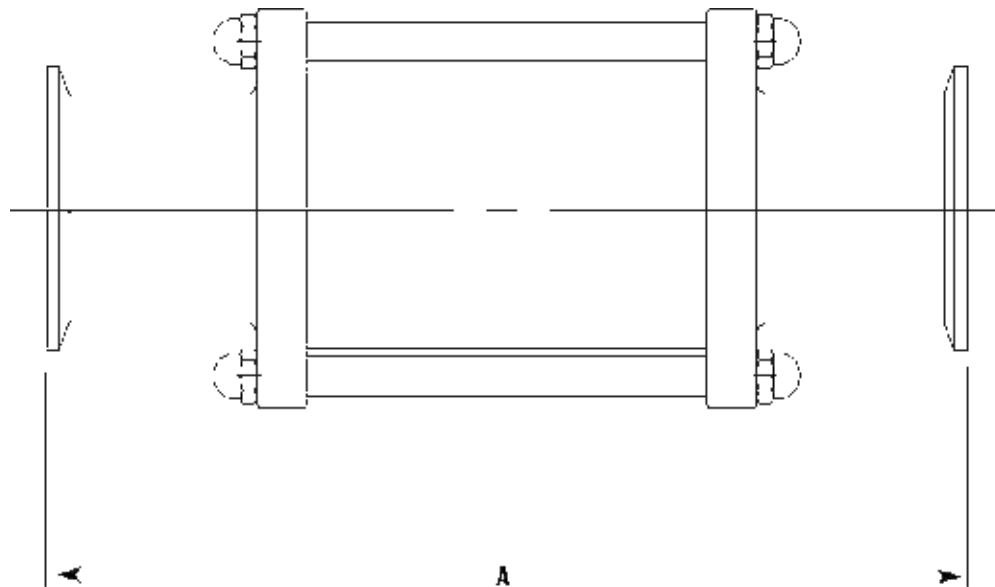
Maximum temperature viton: 400° F

Maximum temperature buna: 200° F



SPECIALS SIGHT GLASS

360° SIGHT GLASSES



NOTE: FOR GLASS OVER 3" LONG, ADD LENGTH TO "A" DIMENSION

SIZE	PART NO.	DESCRIPTION	A	MAX PSI
1 1/2"	2780-00	360° Sight glass	9"	75
2"	2790-00	360° Sight glass	9"	75
2 1/2"	2800-00	360° Sight glass	9"	75
3"	2810-00	360° Sight glass	9"	70

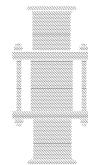
Maximum temperature viton: 400° F

Maximum temperature buna: 200° F

Maximum length 10 x diameter

1 1/2"

SPECIALS



15TH SHORT

SIZE	PART NO.	DESCRIPTION
1	5412-47	Hose cap - short
1 1/2	5414-47	Hose cap - short
2	5418-47	Hose cap - short
2 1/2	5420-47	Hose cap - short
3	5416-47	Hose cap - short
4	5423-47	Hose cap - short



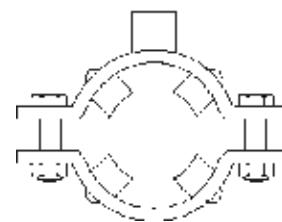
15TH LONG

SIZE	PART NO.	DESCRIPTION
1	5421-47	Hose cap - short
1 1/2	5413-47	Hose cap - short
2	5417-47	Hose cap - short
2 1/2	5419-47	Hose cap - short
3	5415-47	Hose cap - short
4	5422-47	Hose cap - short



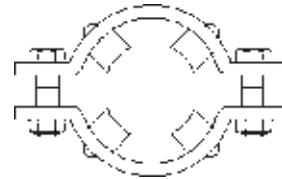
24N

SIZE	PART NO.	DESCRIPTION
1	3451-41	Hanger - 3/8 NPT
1 1/2	3446-41	Hanger - 3/8 NPT
2	3447-41	Hanger - 3/8 NPT
2 1/2	3448-48	Hanger - 3/8 NPT
3	3449-41	Hanger - 3/8 NPT
4	3450-41	Hanger - 3/8 NPT



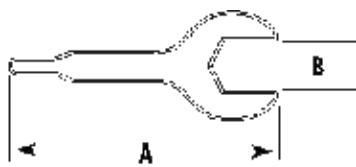
24P

SIZE	PART NO.	DESCRIPTION
1	3439-41	Hanger - plain hole
1 1/2	3440-41	Hanger - plain hole
2	3441-41	Hanger - plain hole
2 1/2	3442-41	Hanger - plain hole
3	3443-41	Hanger - plain hole
4	3444-41	Hanger - plain hole

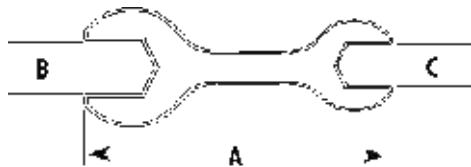


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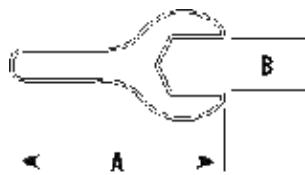


SPECIALS**2F-32**

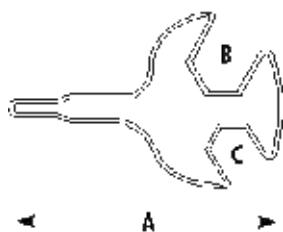
SIZE	PART NO.	A	B
1	2970-90	10 3/4	1 27/32
1 1/2	2971-90	13	2 7/16
2	2972-90	14 1/4	3 1/32
2 1/2	2973-90	17 1/2	3 21/32
3	2974-90	20 1/2	4 1/4
4	2975-90	23	5 7/16

2F-32

SIZE	PART NO.	A	B	C
1 1/2 x 1	2980-90	12 1/2	2 7/16	1 27/32
2 x 1 1/2	2981-90	13 5/8	3 1/32	2 7/16
2 1/2 x 2	2982-90	18	3 21/32	3 1/32
3 x 2	2983-90	18 1/4	4 1/4	2 7/16

S25H

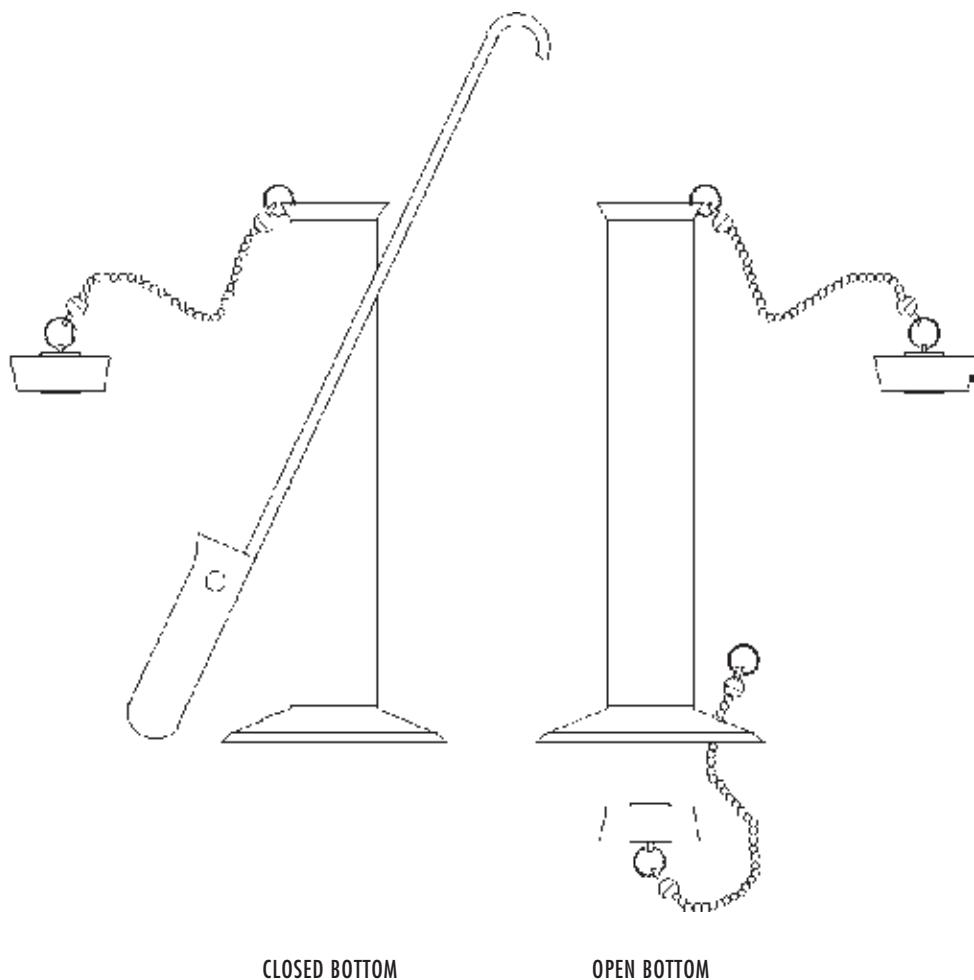
SIZE	PART NO.	A	B
1	2984-90	6	1 27/32
1 1/2	2985-90	7 1/2	2 7/16
2	2986-90	8	3 1/32
2 1/2	2987-90	9 5/8	3 21/32
3	2988-90	12	4 1/4

25HK

SIZE	PART NO.	A	B	C
3 1/2 x 3	2990-90	21 1/2	4 7/8	4 1/4

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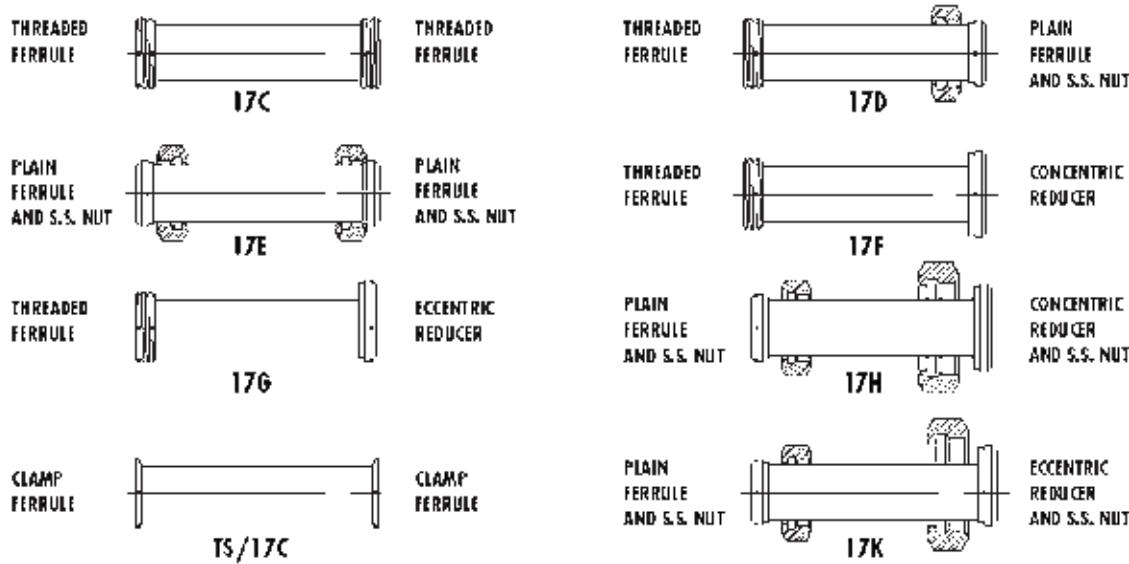


FEATURES

- Type 304 stainless steel
- Open or closed bottoms
- 8" through 24" lengths
- Dippers 10cc through 180cc
- Curved or straight handles
- Handle lengths to 48"



SPECIALS
SANITARY TUBE ASSEMBLIES



17C & TS/17C		17D		17E	
SIZE	LIST EACH	MINIMUM LENGTH	LIST EACH	MINIMUM LENGTH	LIST EACH
1"	P . O . A .	1 3/8"	P . O . A .	2 7/8"	P . O . A .
1 1/2"		1 1/2"		3 1/8"	
2"		1 11/16"		3 3/8"	
2 1/2"		1 11/16"		3 3/4"	
3"		1 13/16"		4 1/8"	
4"		2"		4 5/8"	

17F		17G		17H		17K	
SIZE	LIST EACH	MINIMUM LENGTH	LIST EACH	MINIMUM LENGTH	LIST EACH	MINIMUM LENGTH	LIST EACH
1 1/2 x 1	P . O . A .	1 3/8"	P . O . A .	1 3/8"	P . O . A .	3 3/32"	P . O . A .
2 x 1		1 3/8"		1 3/8"		3 3/32"	
2 x 1 1/2		1 1/2"		1 1/2"		3 3/8"	
2 1/2 x 1		1 3/8"		1 3/8"		3 3/16"	
2 1/2 x 1 1/2		1 1/2"		1 1/2"		3 21/32"	
2 1/2 x 2		1 11/16"		1 11/16"		3 21/32"	
3 x 1 1/2		1 1/2"		1 1/2"		3 7/8"	
3 x 2		1 11/16"		1 11/16"		3 7/8"	
3 x 2 1/2		1 11/16"		1 11/16"		3 29/32"	
4 x 1 1/2		1 1/2"		1 1/2"		4 3/8"	
4 x 2		1 11/16"		1 11/16"		4 3/8"	
4 x 2 1/2		1 11/16"		1 11/16"		4 13/32"	
4 x 3		1 13/16"		1 13/16"		4 7/16"	

EXTRAS FOR EACH ADDITIONAL INCH AND FOOT

SIZE	1"	1 1/2"	2"	2 1/2"	3"	4"
------	----	--------	----	--------	----	----

FOR EACH ADDITIONAL INCH OR FRACTION THEREOF, ADD P . O . A .

FOR EACH ADDITIONAL FOOT IN LENGTH, ADD P . O . A .

Ferrules and tubing are joined together by the Heli-Arc welding method - 100% sanitary crack-free joints are assured for every unit.
Tube assemblies other than those shown can also be furnished to your specifications.

BE SURE TO SPECIFY MAXIMUM LENGTHS DESIRED WHEN ORDERING ABOVE UNITS, OTHERWISE MINIMUM LENGTHS WILL BE FURNISHED.

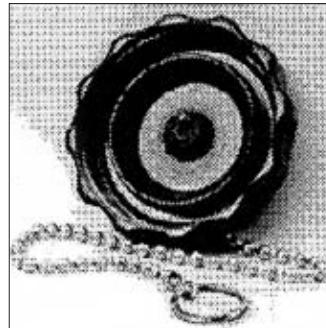




**SPECIALS
CLOSURES**

Seal Open Ends with high impact, lightweight, plastic closures at *half the cost* of metal closures.

Seal every place where contamination can enter. Keep out dust, insects, mold and volatile odors from pipelines, pumps and any flow equipment with acme or John Perry connections.



CLOSURE WITH CHAIN

FEATURES

- Lightweight, high impact plastic
- Tighten drip proof by hand
- Have standard sanitary threads
- Male and female sizes 1-1/2" through 3"
- Replace metal closures at half the cost

PLASTIC CLOSURES

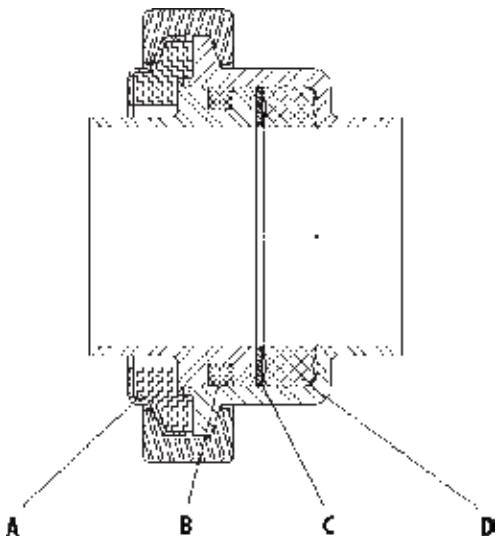
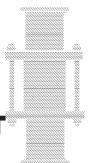
OPENING SIZE	MODEL	FEMALE		MALE	
		W/O CHAIN	W/CHAIN	W/O CHAIN	W/CHAIN
1 1/2"	15080-NO				
	15084-NO				
	15088-NO				
	15092-NO				
2"	15081-NO				
	15085-NO				
	15089-NO				
	15093-NO				
2 1/2"	15082-NO				
	15086-NO				
	15090-NO				
	15094-NO				
3"	15083-NO				
	15087-NO				
	15091-NO				
	15095-NO				

PRICES EFFECTIVE JULY 4, 1996

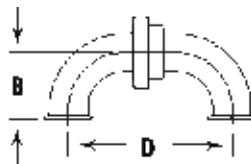
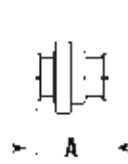
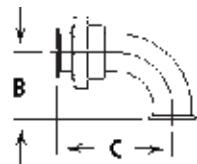
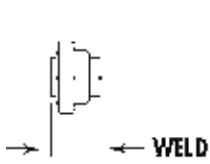
PRICES SUBJECT TO CHANGE WITHOUT NOTIFICATION.



SPECIALS
SWIVEL JOINT



ITEM	1"	1 1/2"	2"	2V"	2 1/2"	3"	3V"	4"
A - Teflon Collar	6823-T0	6824-T0	6825-T0	6744-T0	6826-T0	6827-T0	6745-T0	6828-T0
B - Diameter Seal	6796-S0	6797-S0	6798-S0	6751-S0	6799-S0	6800-S0	6752-S0	6801-S0
C - Bearing Washer	6589-T0	6590-T0	6591-T0	6595-T0	6592-T0	6593-T0	6596-T0	6594-T0
D - Face Seal	6787-S0	6788-S0	6789-S0	6737-S0	6790-S0	6791-S0	6738-S0	6792-S0
Repair Kit Number	6701-S0	6702-S0	6703-S0	6704-S0	6705-S0	6706-S0	6707-S0	6708-S0
Style 20W	2964-6S	2965-6S	2966-6S	2945-6S	2967-6S	2968-6S	2947-6S	2969-6S
Style 20					P . O . A .			
Style 30					P . O . A .			
Style 40					P . O . A .			



STYLE 20W

STYLE 30

STYLE 20

STYLE 40

SIZE	CLAMP				BEVEL SEAT				
	A	B	C	D	A	B	C	D	WELD
1"	3"	2"	4"	5"	3 7/16"	2 7/32"	4 7/32"	5"	2"
1 1/2"	3"	2 3/4"	4 3/4"	6 1/2"	3 7/16"	2 31/32"	4 31/32"	6 1/2"	2"
2"	3"	3 1/2"	5 1/2"	8"	3 1/2"	3 3/4"	5 3/4"	8"	2"
2 1/2"	3"	4 1/4"	6 1/4"	9 1/2"	3 3/4"	4 5/8"	6 5/8"	9 1/2"	2"
3"	3"	5"	7"	11"	3 13/16"	5 13/32"	7 13/32"	11"	2"
4"	4 3/16"	6 5/8"	9 1/16"	14 15/16"	5"	7 1/32"	9 31/32"	14 15/16"	2 15/16"

PRICES EFFECTIVE JULY 4, 1996

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THOMSEN

Quality stainless steel flow equipment.



ENGINE DRIVEN SANITARY CENTRIFUGAL PUMP

Engine Driven Sanitary Centrifugal Pump

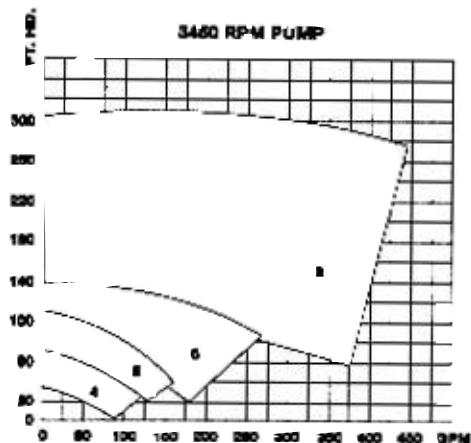
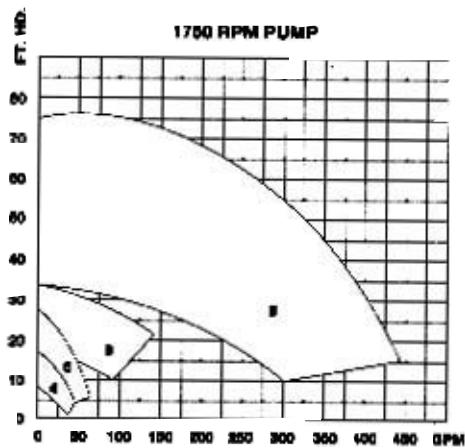
Completely portable!

- Can be used in remote areas where no power source is available.
- Can be used in emergencies to transfer product from disabled tankers to avoid the costly expense of product contamination.
- Can be used as a backup pump to your regular system.

Four pump models to choose from!

- Type 316 stainless steel.
- Internal and external seals available to handle almost any product.
- External seal backplates incorporate ceramic wear ring to reduce replacement costs.
- Clamp, bevel seat or special connections available.
- Flows to 400 GPM.

3 A authorized



TECHNICAL

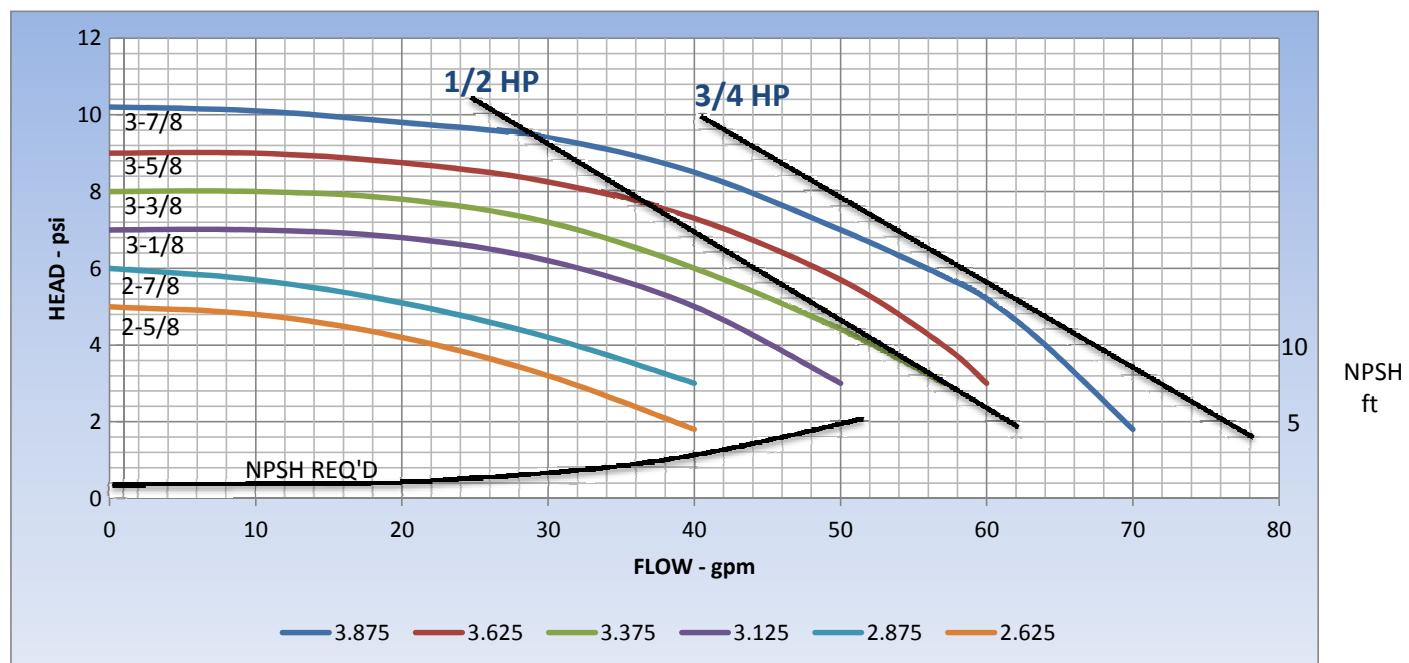
THOMSEN

Quality stainless steel flow equipment.



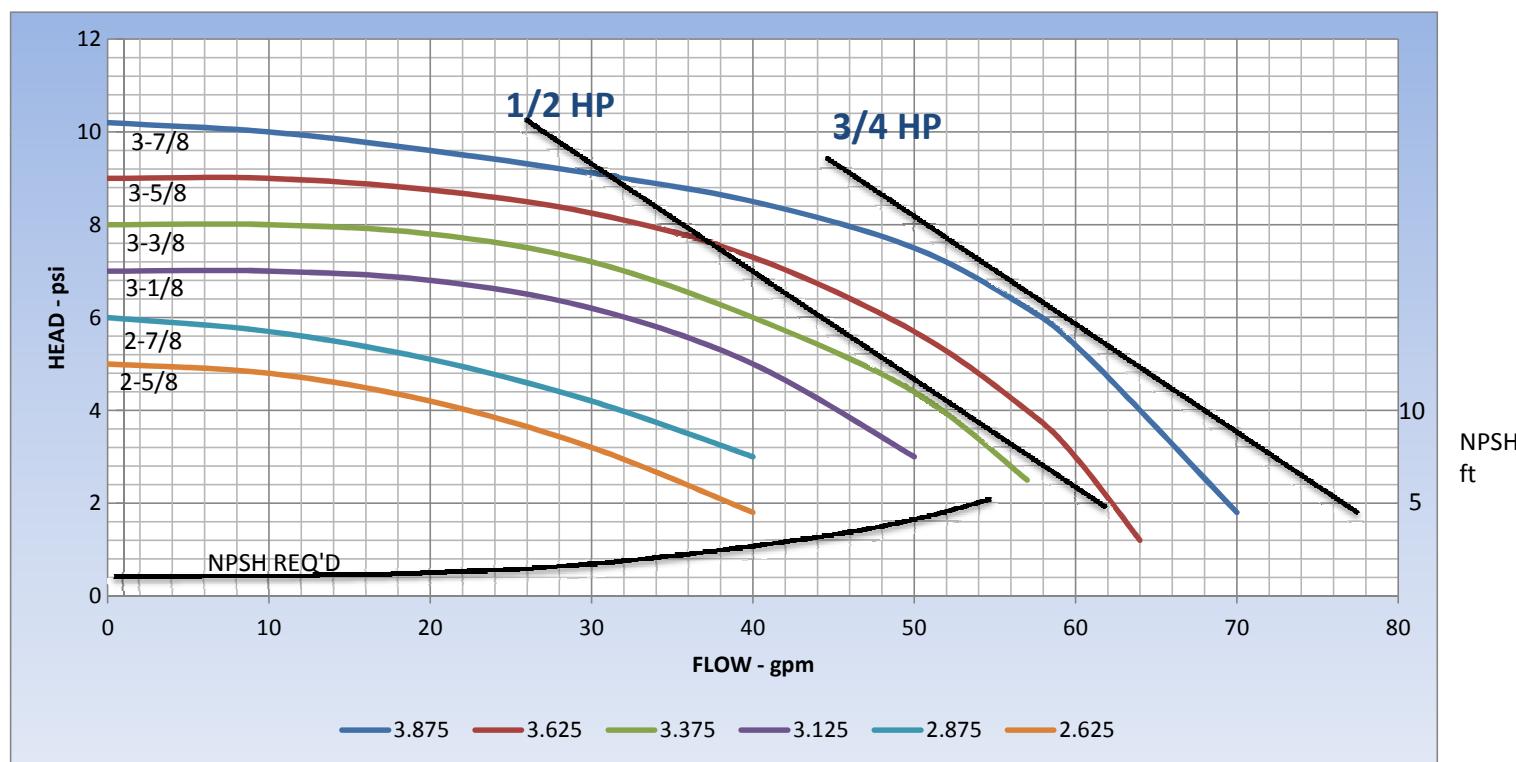
SANITARY CENTRIFUGAL PUMPS

#4 Pump @ 1725 rpm.
3-7/8" to 2-7/8" Existing impeller with Existing Casing 1-1/2 x 1-1/2

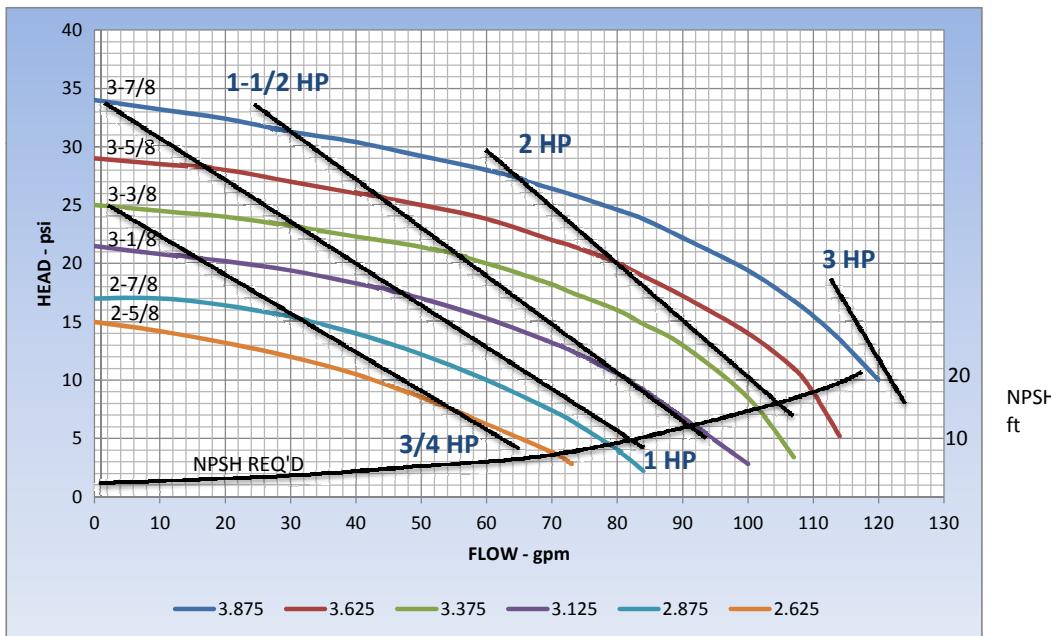


#4 Pump @ 1725 rpm.

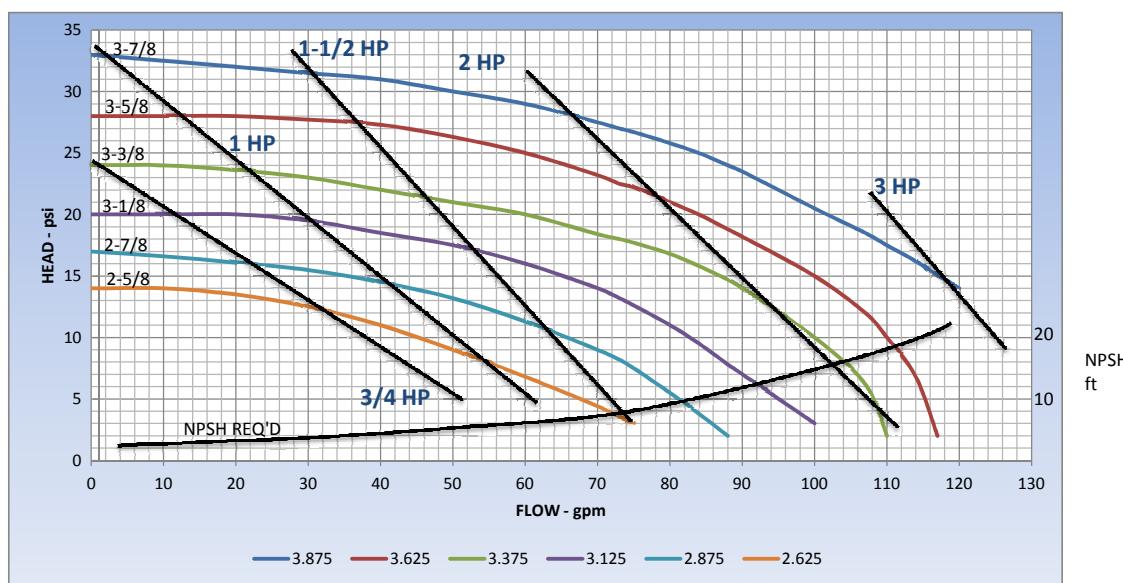
3-7/8" to 2-7/8" Existing impeller with Existing Casing 2 x 1-1/2



*#4 Pump @ 3450 rpm.
3-7/8" to 2-5/8" Existing impeller with Existing Casing 1-1/2 x 1-1/2*

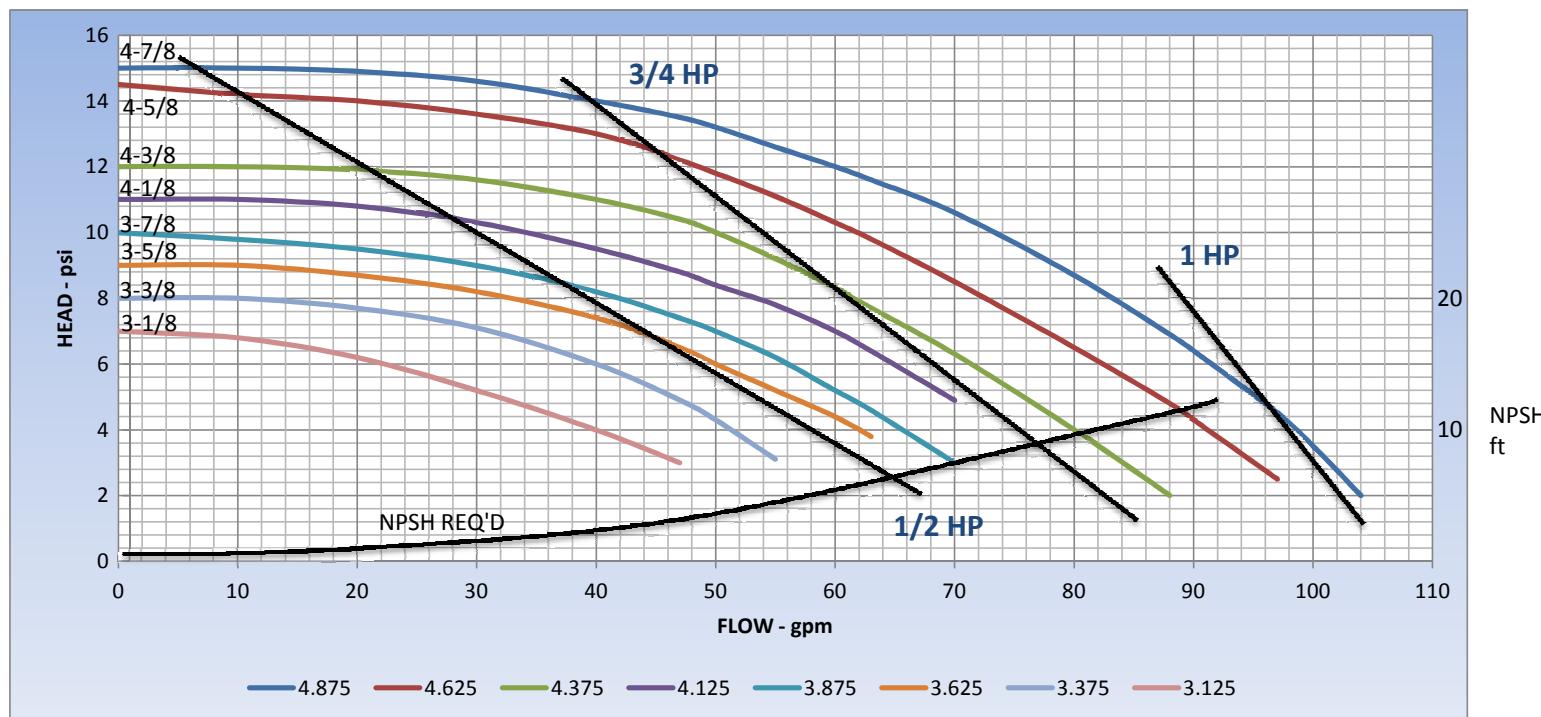


*#4 Pump @ 3450 rpm.
3-7/8" to 2-7/8" Existing impeller with Existing Casing 2 x 1-1/2*



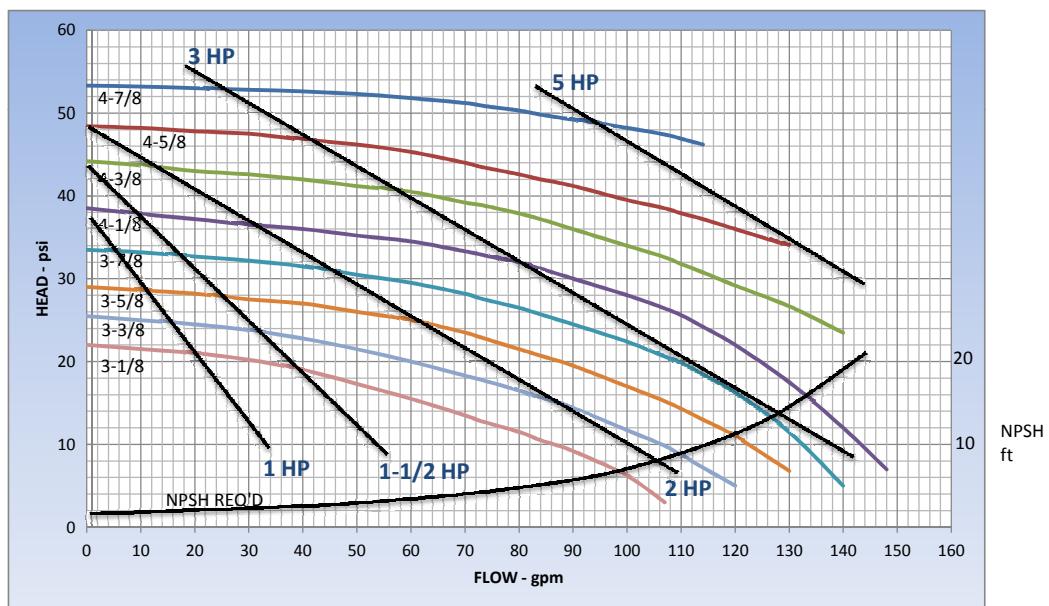
#5 Pump @ 1725 rpm.

4-7/8" to 3-1/8" Existing impeller with Existing Casing 1-1/2 x 1-1/2



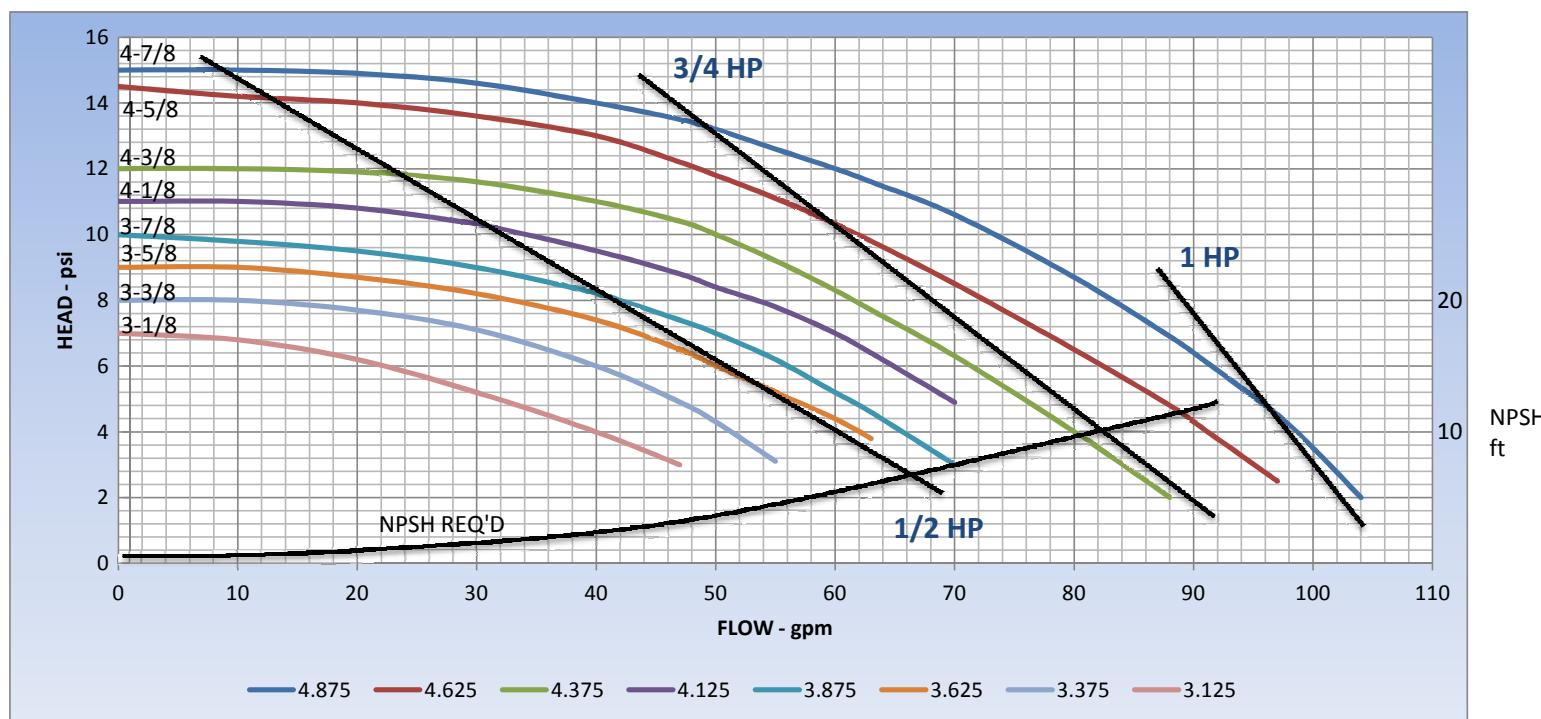
#5 Pump @ 3500 rpm.

4-7/8" to 3-1/8" Existing impeller with Existing Casing 1-1/2 x 1-1/2

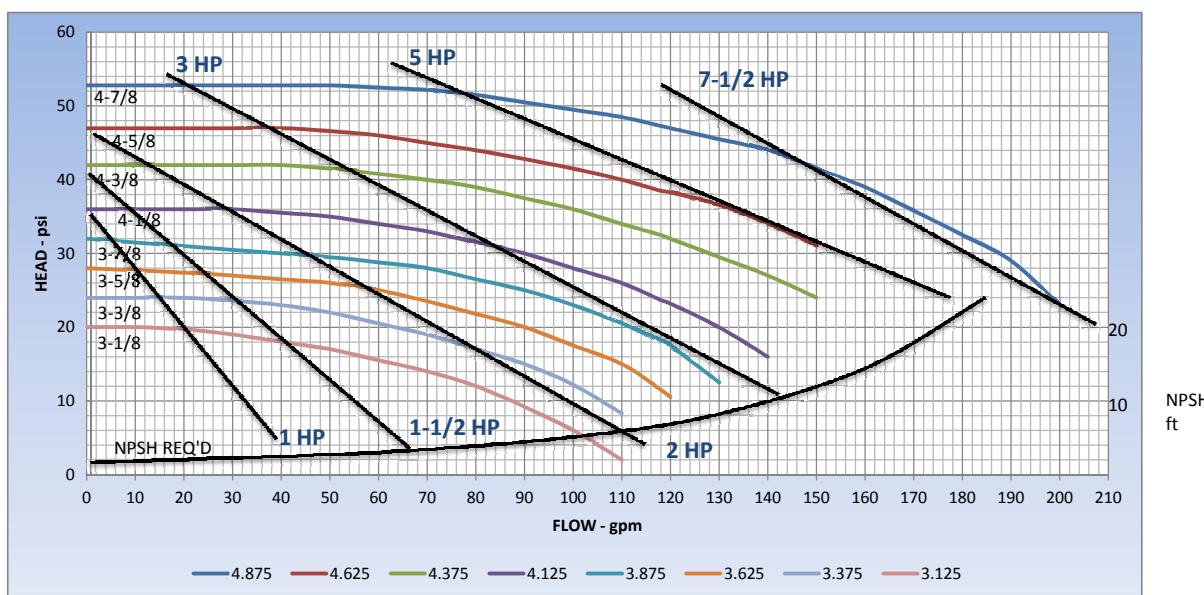


#5 Pump @ 1725 rpm.

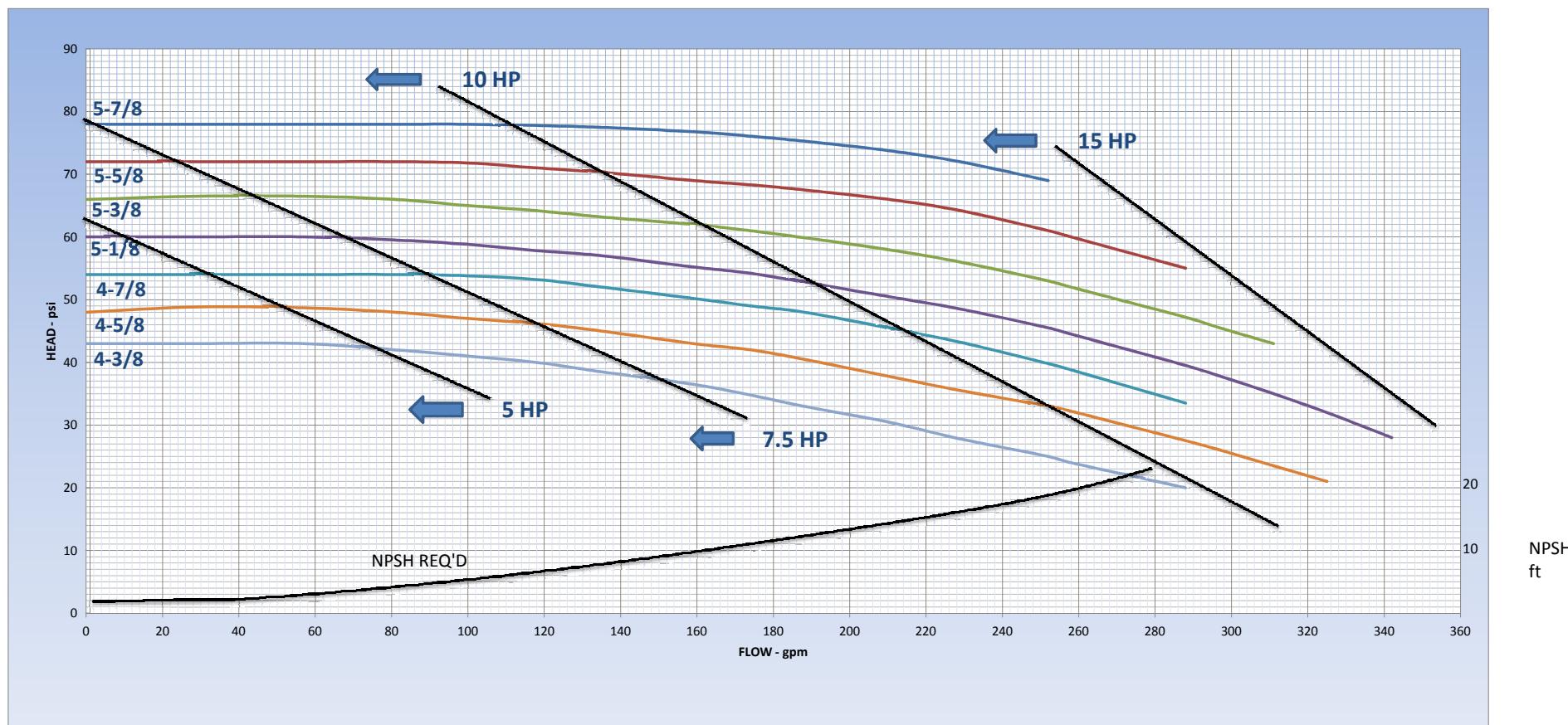
4-7/8" to 3-1/8" Existing impeller with Existing Casing 2 x 1-1/2



#5 Pump @ 3500 rpm.
 4-7/8" to 3-1/8" Existing impeller with Existing Casing 2 x 1-1/2

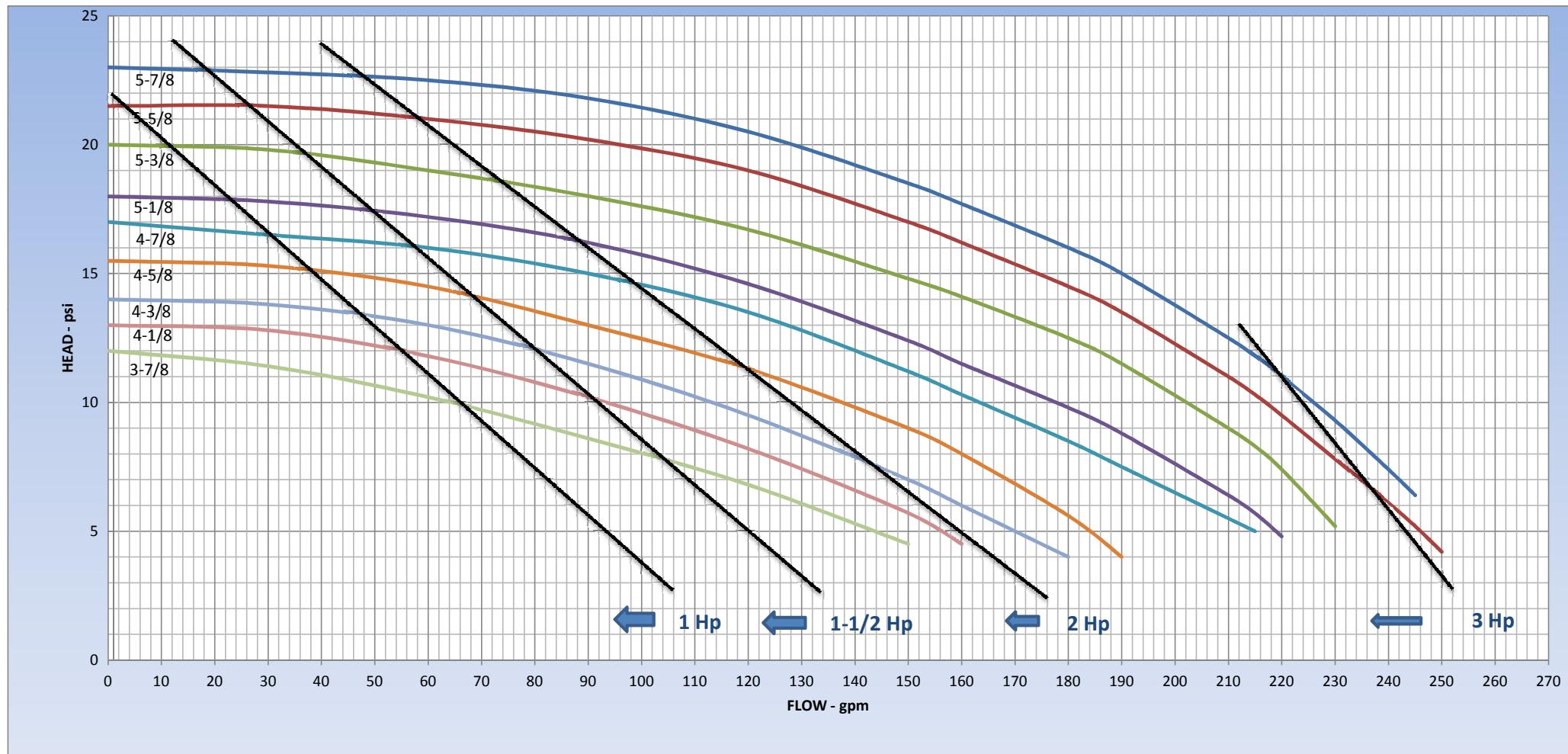


#6 Pump @ 3520 rpm.
5-7/8" to 4-3/8" Existing impeller with Existing Casing 2 x 1-1/2



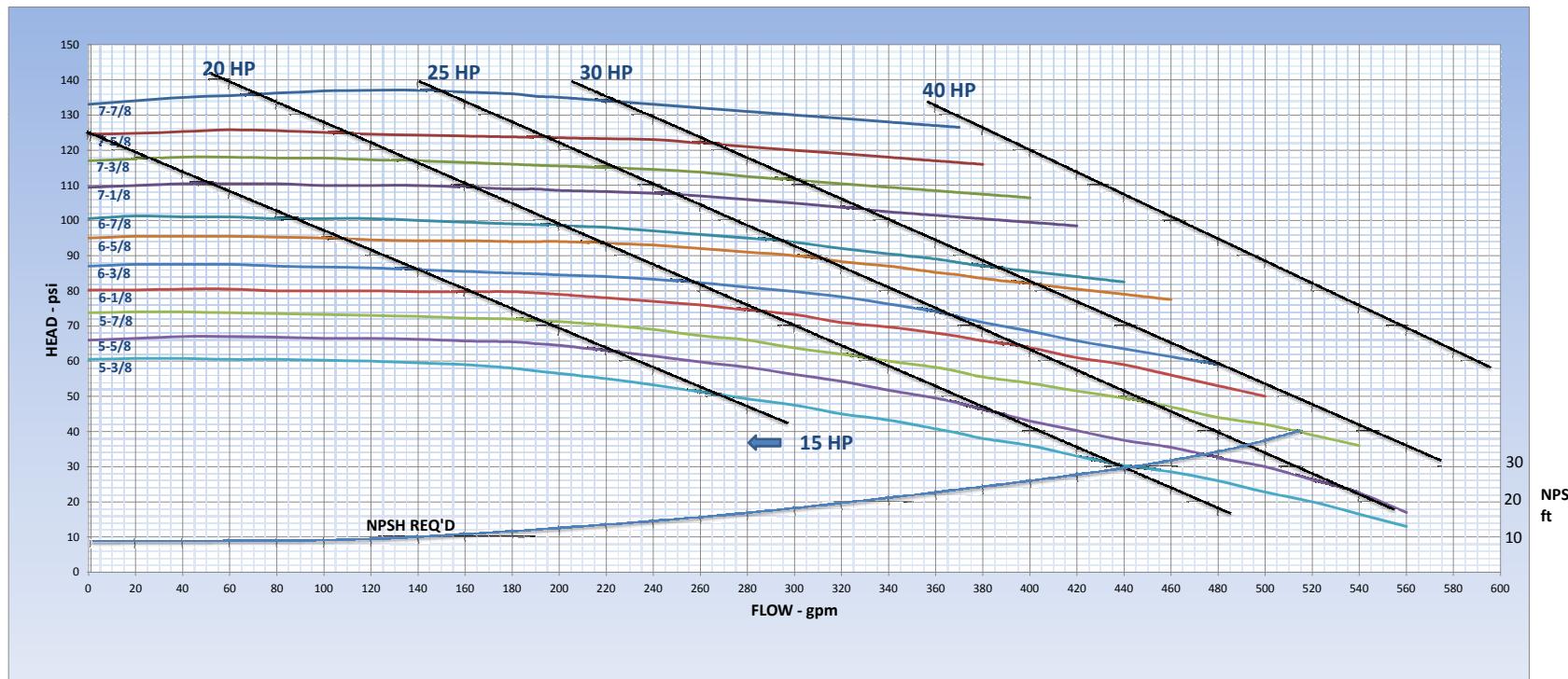
#6 Pump @ 1760 rpm.

3-7/8" to 5-7/8" Existing impeller with existing casing 2 x 1-1/2"

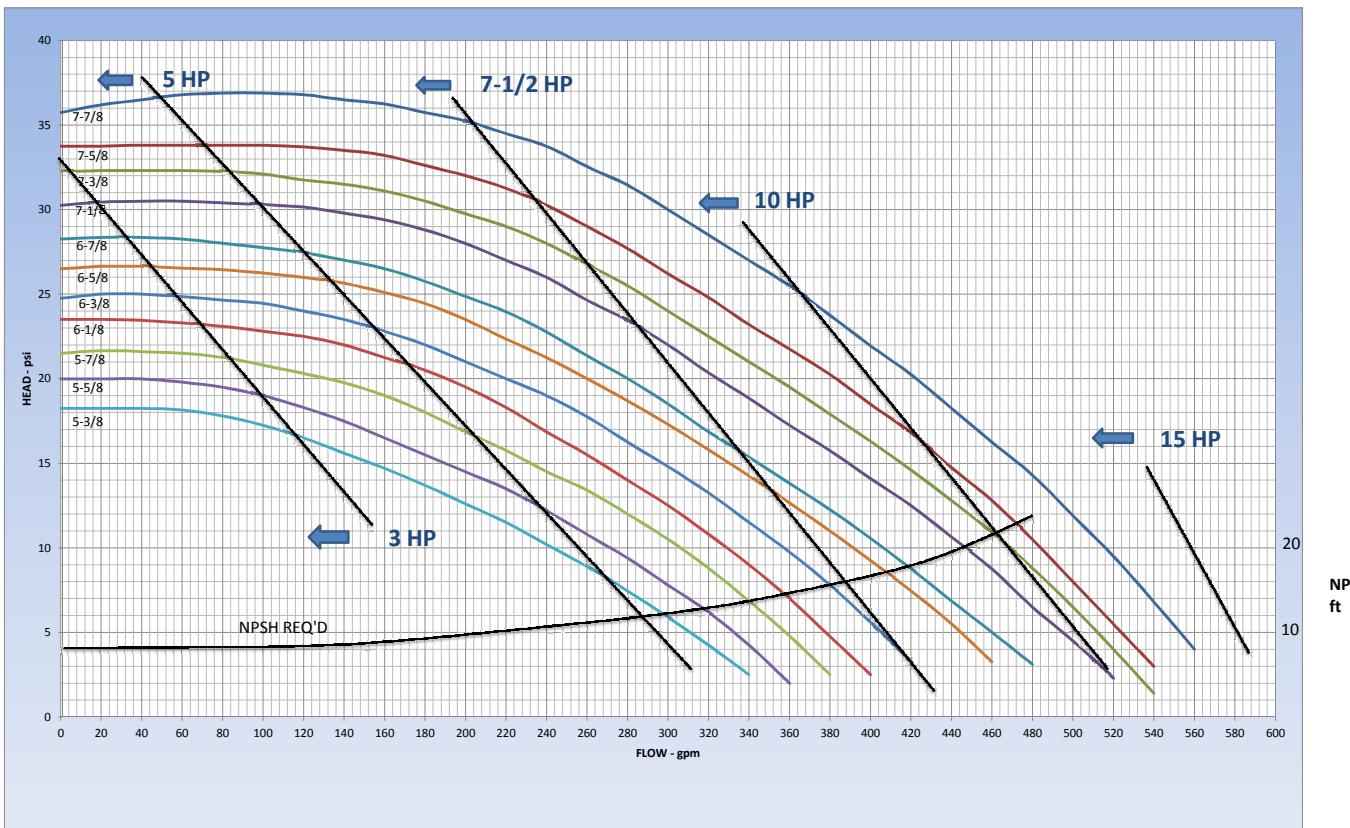


#8 Pump @ 3520 rpm.

7-7/8" Existing impeller with existing casing 3 x 2



#8 Pump @ 1760 rpm.
7-7/8" to 5-3/8" Existing impeller with Existing Casing 3 x 2



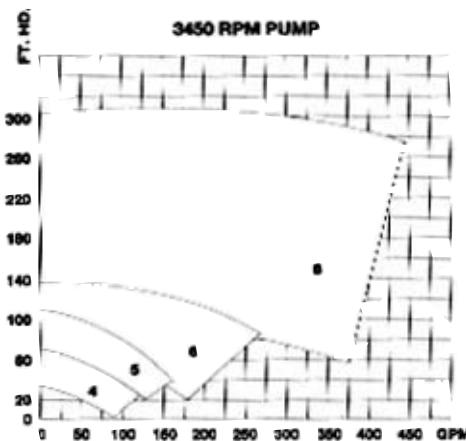
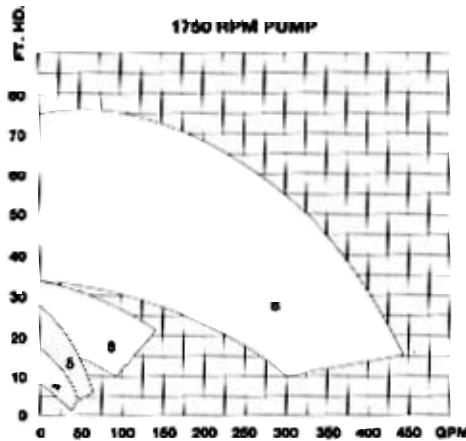
Sanitary Centrifugal Pumps

THOMSEN® is the name to turn to when you need a quality, economical, stainless steel, sanitary centrifugal pump. There are four models to choose from with flows up to 500 gpm. The clamp head design permits 360 degree outlet rotation. An investment cast four blade impeller delivers a smooth, steady flow. Internal, external and special seal combinations are available. Standard connections are clamp or bevel seat. Special connections are available upon request. Sanitary pumps have 3A authorization.

THOMSEN® pumps are manufactured from type 316 stainless steel and polished to a sanitary finish. Backplates incorporate a ceramic wear ring to reduce replacement costs. A variety of elastomers are also available for all your pumping applications.

THOMSEN® stocks a complete inventory of pump parts for quick delivery and service. Most pumps can be assembled, tested and shipped within one to three days and in an emergency can sometimes be shipped the same day.

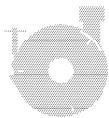
So when you need a sanitary centrifugal pump there is only one name to remember. **THOMSEN®**. The trusted name for sanitary centrifugal pumps and fittings for the food, dairy and beverage industries for over 60 years.



3A authorized 

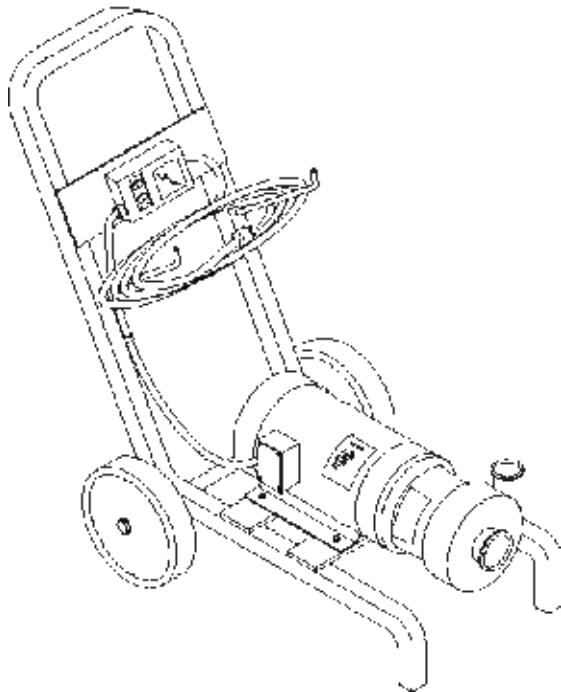
THOMSEN

PARTS LIST



CENTRIFUGAL
PUMPS

PORTABLE PUMP DOLLY



FEATURES

- Type 304 SS construction
- Thermo-cushion rubber wheels
- Available for 56 through 215 frames
- Four-point suspension

OPTIONAL

- Handle mounted starter
- Single or three phase controls
- Water-tight electrical connections
- 30 foot cord

DOLLY WITH STARTER MOUNTING PLATE AND CORD HOOKS

FRAME SIZE	56	143	145	182	184	213	215
Part No.	8911-4A	8911-4B	8911-4C	8911-4D	8911-4E	8911-4F	8911-4G
PRICE	360.00	360.00	360.00	360.00	360.00	385.00	385.00

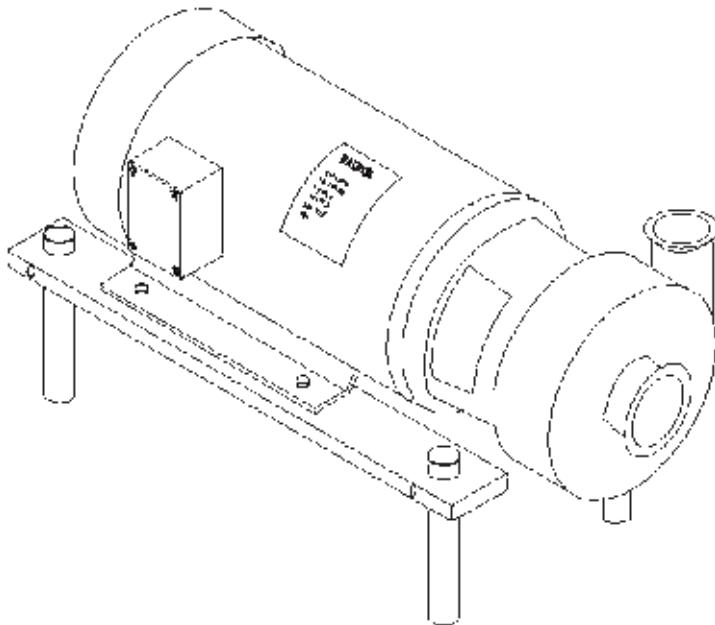
DOLLY WITH STARTER AND CORD 1 PHASE AND 3 PHASE

FRAME SIZE	56	143	145	182	184	213	215
1PH Part No.	8909-1A	8909-1B	8909-1C	8909-1D	8909-1E	8909-1F	8909-1G
PRICE	770.00	770.00	770.00	770.00	770.00	870.00	870.00
3PH Part No.	8909-3A	8909-3B	8909-3C	8909-3D	8909-3E	8909-3F	8909-3G
PRICE	770.00	770.00	770.00	770.00	770.00	870.00	870.00

PRICES EFFECTIVE JULY 4, 1996

PRICES SUBJECT TO CHANGE WITHOUT NOTIFICATION.





FEATURES

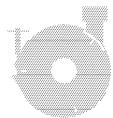
- Type 304 SS construction
- Adjustable height
- Adjusts to uneven floor conditions
- Available for 56 through 256 frames

FITS FRAMES	PART NO.	PRICE
56-143-145	8956-47	135.00
182-184	8957-47	150.00
213-215	8958-47	166.00
254-256	8959-47	190.00

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**CENTRIFUGAL
PUMPS**
MODEL NO. 4

PART NO.	DESCRIPTION
9046-67	Head - 1 1/2" in x 1 1/2" out (clamp)
9056-67	Head - 1 1/2" in x 1 1/2" out (acme)
9047-67	Head - 2" in x 1 1/2" out (clamp)
9057-67	Head - 2" in x 1 1/2" out (acme)
9068-67	Head - 1 1/2" in x 1" out (weld)
9073-67	Head - 1 1/2" x 1 1/2" out NPT (male)
9230-67	Back plate - (internal seal)
9229-67	Back plate - (external seal with ceramic)
3179-B0	Head "O" ring gasket buna (standard)
3179-V0	Head "O" ring gasket viton
3179-E0	Head "O" ring gasket EPDM
3179-S0	Head "O" ring gasket silicone
9530-67	Drive shaft - 5/8" bore
9531-67	Drive shaft - 7/8" bore
9395-67	Impeller - 3 7/8" diameter
9396-67	Impeller - 3 5/8" diameter
9397-67	Impeller - 3 3/8" diameter
9400-67	Impeller - 3 1/8" diameter
9345-60	Impeller clip
9340-40	Set screw
9335-T0	Rotary seal (teflon)
9343-40	Carbon seal assembly, T-21 (buna)
9343-V0	Carbon seal assembly, T-21 (viton)
9354-B0	Carbon seal bellows (buna)
9354-V0	Carbon seal bellows (viton)
9353-K0	Carbon ring for T-21
9500-BC	Ceramic wear ring (buna cushion)
9500-VC	Ceramic wear ring (viton cushion)
3139-B0	Rotary seal "O" ring buna (standard)
3139-V0	Rotary seal "O" ring (viton)
3139-E0	Rotary seal "O" ring (EPDM)
3139-S0	Rotary seal "O" ring (silicone)
9305-68	Rotary seal spring
9310-48	Head clamp 5"
9327-40	Clamp T-handle
9328-40	Clamp T-bolt
9250-04	Adapter (56, 143 & 145 frame)
9350-40	Adapter mounting bolt 3/8"-16 UNC

PRICES EFFECTIVE JULY 4, 1996

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CENTRIFUGAL PUMPS

MODEL NO. 4



MODEL #4 PUMP KITS

PART NO.	DESCRIPTION
9355-B0	#4 Seal kit
9355-V0	#4 Seal kit-viton
9222-B0	#4 External seal kit
9222-V0	#4 External seal kit-viton

#4 INTERNAL SEAL KIT INCLUDES

PART NO.	DESCRIPTION	QUANTITY
9335-T0	Teflon seal	1
3139-B0/V0/E0/S0	"O" rings	3
9305-68	Spring	1
3179-B0/V0/E0/S0	Head "O" ring	1
9345-60	Impeller clips	2

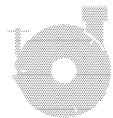
#4 EXTERNAL SEAL KIT INCLUDES

PART NO.	DESCRIPTION	QUANTITY
3179-B0/V0/E0/S0	Head "O" ring	1
9343-40	Carbon seal assembly, T-21 1"	1
9345-60	Impeller clips	2

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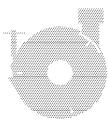
**CENTRIFUGAL
PUMPS**
MODEL NO. 5

PART NO.	DESCRIPTION
9093-67	Head - 1 1/2" in x 1 1/2" out (clamp)
9103-67	Head - 1 1/2" in x 1 1/2" out (acme)
9094-67	Head - 2" in x 1 1/2" out (clamp)
9104-67	Head - 2" in x 1 1/2" out (acme)
9113-67	Head - 1 1/2" in x 1 1/2 " out NPT (male)
9235-67	Back plate - (internal seal)
9234-67	Back plate - (external seal with ceramic)
9236-67	Back plate - (external seal)
3184-B0	Head "O" ring gasket buna (standard)
3184-V0	Head "O" ring gasket viton
3184-E0	Head "O" ring gasket EPDM
3184-S0	Head "O" ring gasket silicone
9530-67	Drive shaft - 5/8" bore
9531-67	Drive shaft - 7/8" bore
9366-67	Drive shaft - 1 1/8" bore (old design)
9373-67	Drive shaft - 1 1/8" bore (internal)
9532-67	Drive shaft - 1 1/8" bore (external ceramic)
9374-67	Drive shaft - 1 3/8" bore (internal)
9533-67	Drive shaft - 1 3/8" bore (external ceramic)
9405-67	Impeller - 4 7/8" diameter
9406-67	Impeller - 4 5/8" diameter
9407-67	Impeller - 4 3/8" diameter
9408-67	Impeller - 4 1/8" diameter
9345-60	Impeller clip
9340-40	Set screw
9335-T0	Rotary seal (teflon)
9343-40	Carbon seal assembly, T-21 (buna)
9343-V0	Carbon seal assembly, T-21 (viton)
9354-B0	Carbon seal bellows (buna)
9354-V0	Carbon seal bellows (viton)
9353-K0	Carbon ring for T-21
9500-BC	Ceramic wear ring (buna cushion)
9500-VC	Ceramic wear ring (viton cushion)
3139-B0	Rotary seal "O" ring buna (standard)
3139-V0	Rotary seal "O" ring (viton)
3139-E0	Rotary seal "O" ring (EPDM)
3139-S0	Rotary seal "O" ring (silicone)
9305-68	Rotary seal spring

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CENTRIFUGAL PUMPS



MODEL NO. 5

PART NO.	DESCRIPTION
9311-48	Head clamp 6"
9327-40	Clamp T-handle
9328-40	Clamp T-bolt
9255-04	Adapter (56, 143 & 145 frame)
9259-04	Adapter (182, 184, 213 & 215 frame)
9350-40	Adapter mounting bolt 3/8"-16 UNC
9351-40	Adapter mounting bolt 1/2"-13 UNC

MODEL #5 PUMP KITS	
PART NO.	DESCRIPTION
9356-B0	#5 Seal kit
9356-V0	#5 Seal kit
9223-B0	#5 External seal kit
9223-V0	#5 External seal kit
9218-B0	#5 Water seal kit
9218-V0	#5 Water seal kit

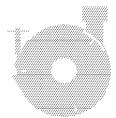
#5 INTERNAL SEAL KIT INCLUDES		
PART NO.	DESCRIPTION	QUANTITY
9335-T0	Teflon seal	1
3139-B0/V0/E0/S0	"O" rings	3
9305-68	Spring	1
3184-B0/V0/E0/S0	Head "O" ring	1
9345-60	Impeller clips	2

#5 EXTERNAL SEAL KIT INCLUDES		
PART NO.	DESCRIPTION	QUANTITY
3184-B0/V0/E0/S0	Head "O" ring	1
9343-40	Carbon seal assembly, T-21 1"	1
9345-60	Impeller clip	2

#5 WATER SEAL KIT INCLUDES		
PART NO.	DESCRIPTION	QUANTITY
9335-T0	Pump shaft seal	2
3139-B0/V0/E0/S0	"O" rings	2
9305-68	Spring	1
9345-60	Impeller clips	2
3184-B0/V0/E0/S0	Head "O" ring	1
3173-B0/V0/E0	Water jacket "O" ring	1

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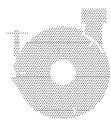
**CENTRIFUGAL
PUMPS**
MODEL NO. 6

PART NO.	DESCRIPTION
9143-67	Head - 2" in x 1 1/2" out (clamp)
9153-67	Head - 2" in x 1 1/2" out (acme)
9144-67	Head - 2" in x 2" out (clamp)
9154-67	Head - 2" in x 2" out (acme)
9146-67	Head - 2 1/2" in x 1 1/2" in out (clamp)
9145-67	Head - 2 1/2" in x 2" out (clamp)
9164-67	Head - 2" in x 1 1/2" out NPT (male)
9169-67	Head - 2" in x 1 1/2" out NPT (female)
9240-67	Back plate - (internal seal)
9242-67	Back plate - (external seal with ceramic)
9241-67	Back plate - (external seal)
3182-B0	Head "O" ring gasket buna (standard)
3182-VO	Head "O" ring gasket viton
3182-E0	Head "O" ring gasket EPDM
3182-S0	Head "O" ring gasket silicone
9530-67	Drive shaft - 5/8" bore
9531-67	Drive shaft - 7/8" bore
9366-67	Drive shaft - 1 1/8" bore (old design)
9373-67	Drive shaft - 1 1/8" bore (internal)
9532-67	Drive shaft - 1 1/8" bore (external ceramic)
9374-67	Drive shaft - 1 3/8" bore (internal)
9533-67	Drive shaft - 1 3/8" bore (external ceramic)
9368-67	Drive shaft - 1 5/8" bore (old design)
9415-67	Impeller - 5 7/8" diameter
9416-67	Impeller - 5 5/8" diameter
9417-67	Impeller - 5 3/8" diameter
9419-67	Impeller - 5 1/8" diameter
9420-67	Impeller - 4 7/8" diameter
9345-60	Impeller clip
9340-40	Set screw
9335-T0	Rotary seal (teflon)
9343-40	Carbon seal assembly, T-21 (buna)
9343-VO	Carbon seal assembly, T-21 (viton)
9354-B0	Carbon seal bellows (buna)
9354-VO	Carbon seal bellows (viton)
9353-K0	Carbon ring for T-21
9500-BC	Ceramic wear ring (buna cushion)
9500-VC	Ceramic wear ring (viton cushion)
3139-B0	Rotary seal "O" ring buna (standard)
3139-VO	Rotary seal "O" ring (viton)
3139-E0	Rotary seal "O" ring (EPDM)
3139-S0	Rotary seal "O" ring (silicone)

PRICES EFFECTIVE JULY 4, 1996

PRICES SUBJECT TO CHANGE WITHOUT NOTIFICATION.



CENTRIFUGAL**PUMPS****MODEL NO. 6**

PART NO.	DESCRIPTION
9305-68	Rotary seal spring
9312-48	Head clamp 7"
9327-40	Clamp T-handle
9328-40	Clamp T-bolt
9265-04	Adapter (182, 184, 213 & 215 frame)
9266-04	Adapter (56, 143 & 145 frame)
9272-04	Adapter (284 & 286)
9350-40	Adapter mounting bolt 3/8"-16 UNC
9351-40	Adapter mounting bolt 1/2"-13 UNC

MODEL #6 PUMP KITS

PART NO.	DESCRIPTION
9357-B0	#6 Seal kit
9357-V0	#6 Seal kit
9224-B0	#6 External seal kit
9224-V0	#6 External seal kit
9219-B0	#6 Water seal kit
9219-V0	#6 Water seal kit

#6 INTERNAL SEAL KIT INCLUDES

PART NO.	DESCRIPTION	QUANTITY
9335-T0	Teflon seal	1
3139-B0/V0/E0/S0	"O" rings	3
9305-68	Spring	1
3182-B0/V0/E0/S0	Head "O" ring	1
9345-60	Impeller clips	2

#6 EXTERNAL SEAL KIT INCLUDES

PART NO.	DESCRIPTION	QUANTITY
3182-B0/V0/E0/S0	Head "O" ring	1
9343-40	Carbon seal assembly, T-21 1"	1
9345-60	Impeller clip	2

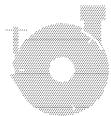
#6 WATER SEAL KIT INCLUDES

PART NO.	DESCRIPTION	QUANTITY
9335-T0	Pump shaft seal	2
3139-B0/V0/E0/S0	"O" ring	3
9305-68	Spring	1
9345-60	Impeller clips	2
3182-B0/V0/E0/S0	Head "O" ring	1
3173-B0/V0/E0	Water jacket "O" ring	1

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**CENTRIFUGAL****PUMPS****MODEL NO. 8**

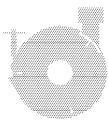
PART NO.	DESCRIPTION
9190-67	Head - 2" in x 2" out (clamp)
9202-67	Head - 2" in x 2" out (acme)
9193-67	Head - 2 1/2" in x 2" out (clamp)
9203-67	Head - 2 1/2" in x 2" out (acme)
9194-67	Head - 3" in x 2" out (clamp)
9204-67	Head - 3" in x 2" out (acme)
9246-67	Back plate - (internal seal)
9249-67	Back plate - (external seal with ceramic)
3185-B0	Head "O" ring gasket buna (standard)
3185-V0	Head "O" ring gasket viton
3185-E0	Head "O" ring gasket EPDM
3185-S0	Head "O" ring gasket silicone
9375-67	Drive shaft - 1 1/8" bore (internal)
9536-67	Drive shaft - 1 1/8" bore (external ceramic)
9376-67	Drive shaft - 1 3/8" bore (internal)
9537-67	Drive shaft - 1 3/8" bore (external ceramic)
9377-67	Drive shaft - 1 5/8" bore (internal)
9378-67	Drive shaft - 1 7/8" bore (internal)
9455-67	Impeller - 7 7/8" diameter
9456-67	Impeller - 7 5/8" diameter
9457-67	Impeller - 7 3/8" diameter
9458-67	Impeller - 7 1/8" diameter
9459-67	Impeller - 6 7/8" diameter
9460-67	Impeller - 6 5/8" diameter
9461-67	Impeller - 6 3/8" diameter
9462-67	Impeller - 6 1/8" diameter
9346-60	Impeller clip
9340-40	Set screw
9336-T0	Rotary seal (teflon)
9347-40	Carbon seal assembly, T-21 x 1 1/4" (buna)
9347-V0	Carbon seal assembly, T-21 x 1 1/4" (viton)
9330-B0	Carbon seal bellows (buna)
9330-V0	Carbon seal bellows (viton)
9348-K0	Carbon ring for T-21 x 1 1/4"
9501-BC	Ceramic wear ring (buna cushion)
9501-VC	Ceramic wear ring (viton cushion)
3137-B0	Rotary seal "O" ring buna (standard)
3137-V0	Rotary seal "O" ring (viton)
3137-E0	Rotary seal "O" ring (EPDM)
3137-S0	Rotary seal "O" ring (silicone)
9306-68	Rotary seal spring
9313-48	Head clamp 9"

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CENTRIFUGAL PUMPS



MODEL NO. 8

PART NO.	DESCRIPTION
9329-40	Clamp T-handle
9328-40	Clamp T-bolt
9276-04	Adapter (182 thru 256 frame)
9277-04	Adapter (284 & 286 frame)
9275-04	Adapter 324TSC frame
9351-40	Adapter mounting bolt 1/2"-13 UNC
9352-40	Adapter mounting bolt 5/8"-11 UNC

MODEL #8 PUMP KITS	
PART NO.	DESCRIPTION
9358-B0	#8 Seal kit (old style, before 1/85)
9358-V0	#8 Seal kit (old style, before 1/85)
9359-B0	#8 Seal kit for heavy duty pumps
9359-V0	#8 Seal kit for heavy duty pumps
9499-B0	#8 External seal kit
9499-V0	#8 External seal kit

#8 SEAL KIT (old style, before 1/85) INCLUDES		
PART NO.	DESCRIPTION	QUANTITY
9335-T0	Teflon seal	1
3139-B0/V0/E0/S0	"O" rings	3
9305-68	Spring	1
3185-B0/V0/E0/S0	Head "O" ring	1
9345-60	Impeller clip	2

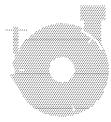
#8 SEAL KIT FOR HEAVY DUTY PUMPS INCLUDES		
PART NO.	DESCRIPTION	QUANTITY
9336-T0	Teflon seal	1
3137-B0/V0	"O" rings	3
9306-68	Spring	1
3185-B0/V0	Head "O" ring	1
9346-60	Impeller clip	2

#8 EXTERNAL SEAL KIT INCLUDES		
PART NO.	DESCRIPTION	QUANTITY
3185-B0/V0/E0/S0	Head "O" ring	1
9347-40	Carbon seal assembly, T-21-1 1/4"	1
9346-60	Impeller clip	2

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**BUNA N**

The standard for most general applications: petroleum base lubricants, hydraulic oils, gasoline, fuels, alcohol, LP gases, water and many other media. **Temperature -40 to +275° F.**

EPDM

For hot water, steam, acids, alcohols, alkalis, ketones, phosphate esters, brake fluids, and exposure to oxygen, ozone and weathering. **Temperature -67 to +300° F.**

SILICONE

Compatible with a variety of fluids, air, oxygen, ozone and other media for extremes of low and high temperature applications. Very elastic and self lubricating. Do not use with solvents, petroleum products, etc. **Temperature -80 to +450° F.**

VITON

High temperature toughness, stability and compatibility with a wide range of fluid and chemical types including acids, oils, fuels, solvents and gases. **Temperature -65 to +500° F.**

TEFLON

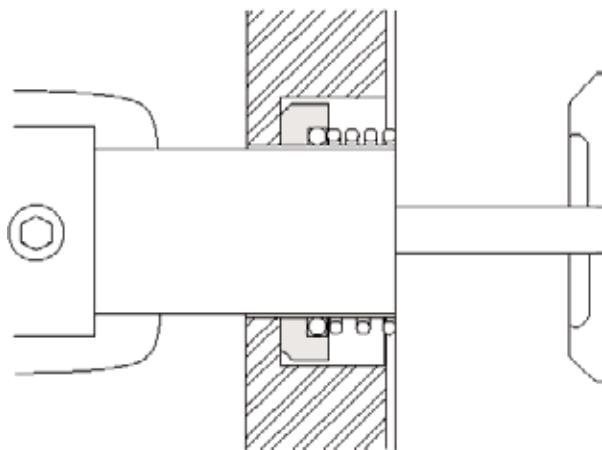
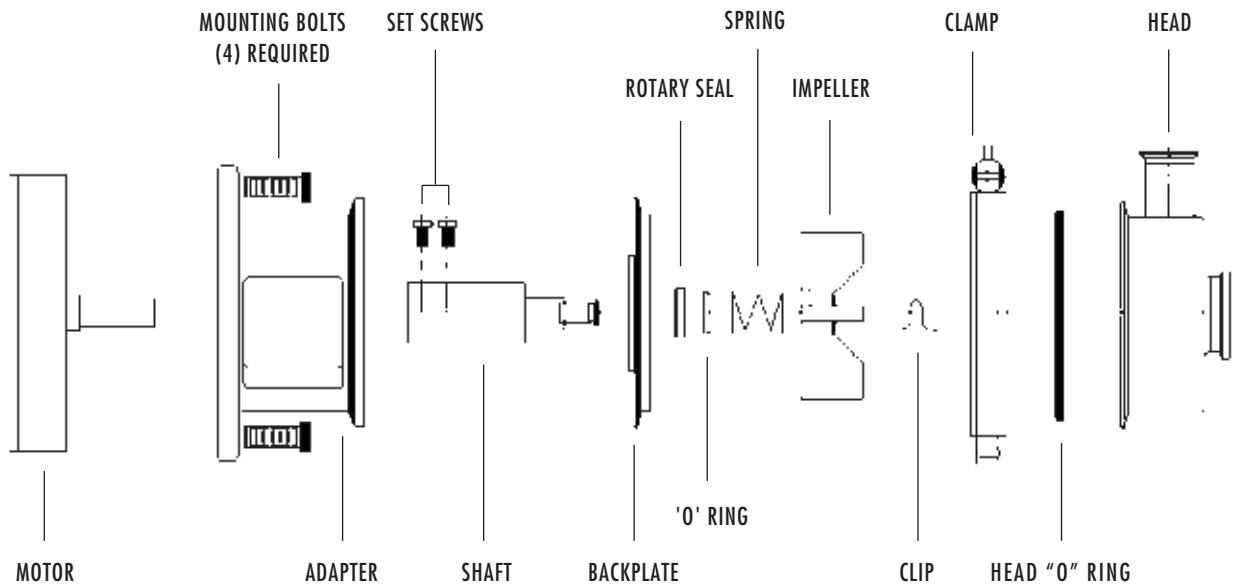
Has extensive chemical and temperature resistance. Not suitable for great temperature fluctuations. Teflon tends to cold form and does not return to its original shape. **Temperature -30 to +500° F.**



CENTRIFUGAL PUMPS



INTERNAL SEAL ASSEMBLY STANDARD SEAL



Thomsen's standard internal seal assembly is well suited for most general pumping applications. It has exceptional wear characteristics. It is lubricated and cooled by the product and uses internal pump pressure to help form a positive seal. With the proper elastomer, it will withstand temperatures up to 400 degrees Fahrenheit.

ASSEMBLY INSTRUCTIONS
STANDARD INTERNAL SEAL PUMP ASSEMBLY

1. Bolt adapter to motor using (4) bolts. The name plate should be at 12 o'clock.
2. Slide pump shaft onto motor shaft. Do not tighten set screws.
3. Place backplate on adapter and slide pump shaft forward until bottom of flats are 1/8" past the face of the backplate. Hold in position and tighten set screws. (See Fig. 1)
4. Place seal ring on shaft with the bevel side against the backplate.
5. Place 'O' ring on shaft and pack it between the seal and shaft.
6. Place spring and impeller on shaft. Align flats on impeller, push impeller fully on and press clip in place in groove. (See Fig.2)
7. Place head 'O' ring on shoulder of backplate. Set head in place at the desired position. Hold in place and install clamp and tighten wing nut. Rotate pump shaft manually to check for interference.
8. Pump is now fully assembled. Be sure motor rotation is correct before using pump.

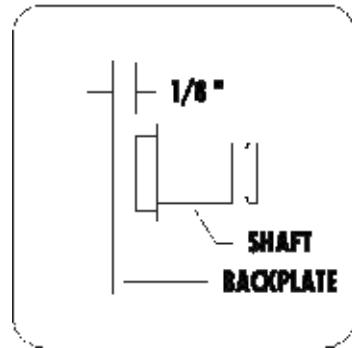


FIGURE 1

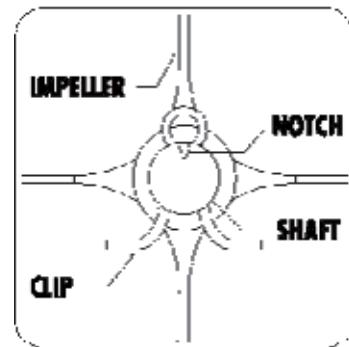
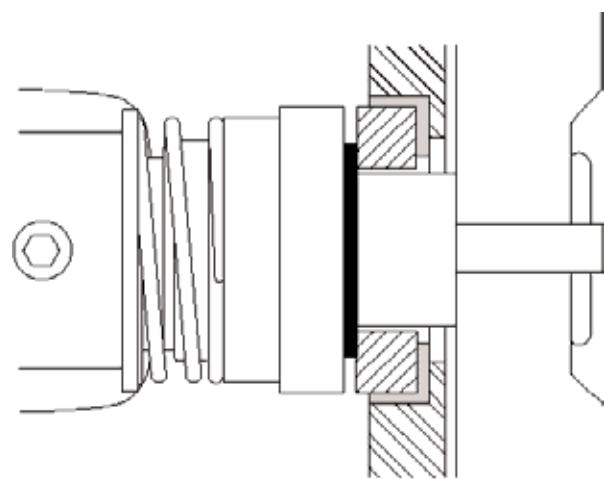
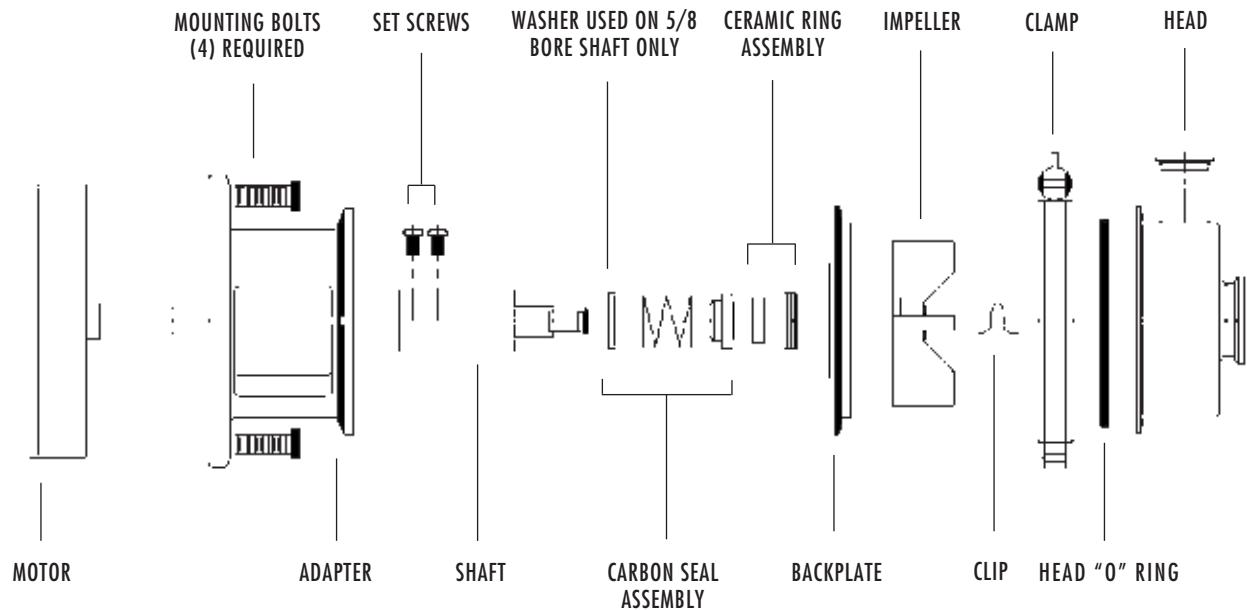


FIGURE 2



EXTERNAL SEAL ASSEMBLY CERAMIC RING

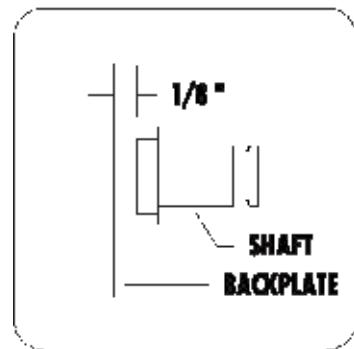
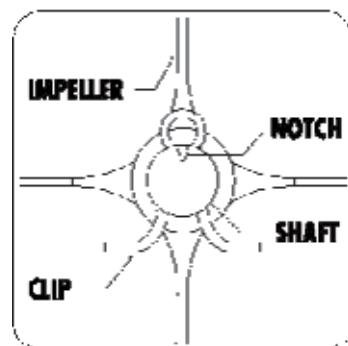


Thomsen's external seal assembly with a replaceable ceramic insert means you will never have to replace a backplate again. It is an excellent choice for vacuum applications such as milk receivers. This seal is also available with a water cascade for hot sticky products.



ASSEMBLY INSTRUCTIONS
STANDARD EXTERNAL SEAL PUMP ASSEMBLY

1. Bolt adapter to motor using (4) bolts. The name plate should be at 12 o'clock.
2. Slide pump shaft onto motor shaft. Do not tighten set screws.
3. Place backplate on adapter and slide pump shaft forward until bottom of flats are 1/8" past the face of the backplate. Hold in position and tighten set screws. (See Fig. 1)
4. Remove backplate and lubricate pump shaft and the inside of the rubber boot of the carbon seal assembly.
5. Lightly lubricate the rubber cup of the ceramic ring assembly and press onto backplate recess with smooth side of ceramic facing out.
6. Put a light film of lubricant on the faces of the ceramic and carbon seal assembly.
7. Slide carbon seal assembly onto pump shaft, being careful not to damage rubber boot.
8. Place backplate onto pump shaft and carefully press back until it seats in adapter. Hold in position while placing impeller on shaft and pressing clip in groove. (See Fig. 2)
9. Place head 'O' ring on shoulder of backplate. Set head in place at the desired position. Hold in place and install clamp and tighten wing nut. Rotate pump shaft manually to check for interference.
10. Pump is now fully assembled. Be sure motor rotation is correct before using pump.


FIGURE 1

FIGURE 2



PUMP TROUBLESHOOTING CHART	
SYMPTOMS	POSSIBLE CAUSES
Pump fails to discharge.	1, 2, 3, 4, 6, 7, 8, 9, 11, 19, 20
Pump discharges then stops.	1, 4, 8, 9, 10, 19, 20
Pump not up to capacity.	1, 2, 4, 7, 8, 9, 10, 11, 12, 16
Pump noisy or vibrates.	7, 10, 11, 13, 14, 15, 16, 17
Pump uses too much power.	5, 18, 19, 20

CAUSES
<ol style="list-style-type: none">1. Suction or discharge valves closed or partially closed.2. Direction of rotation wrong.3. Lift too high.4. Supply level too low.5. Supply level too high.6. Pump not primed.7. Restricted lines.8. Leaks in suction line.9. Pump too small.10. Air or vapor in liquid.11. Impeller damaged.12. Speed too low.13. Misalignment.14. Shaft bent.15. Binding of rotating elements.16. Cavitation.17. Worn or defective motor bearings.18. Motor undersized.19. Specific gravity changed.20. Viscosity changed.

