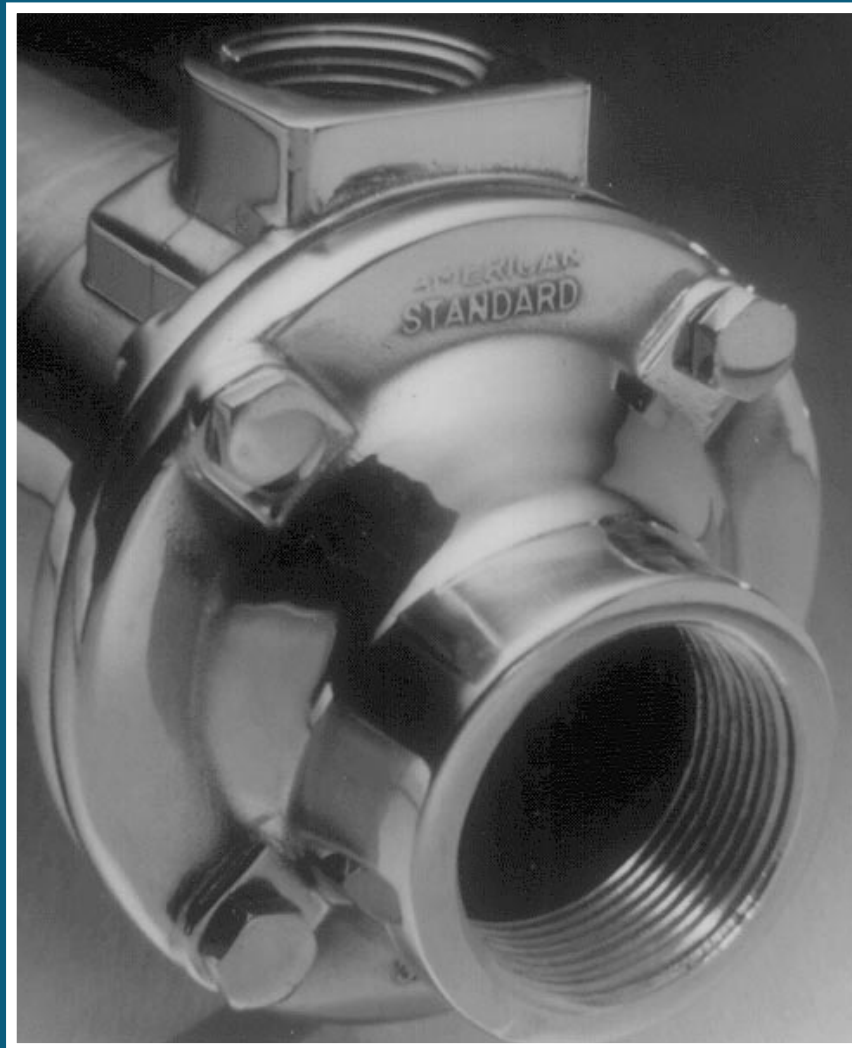


SSCF® Stainless Steel Heat Exchangers



Compact.

Rugged.

Thermally Efficient.

All 316 SS.

ITT Standard

A unit of ITT Fluid Technology Corporation

Durable.

Flexible design.

SSCF heat exchangers are compact, rugged, and ideal for heating or cooling corrosive fluids in chemical, pharmaceutical, and refining processes.

Every SSCF unit is pre-engineered, with 316 stainless steel on all fluid contact areas on both the shell and tube sides. Bolting and support feet on standard units are carbon steel, with the option of stainless steel. Optional bonnets are also available in cast iron or cast bronze. In addition, most models can be furnished to meet ASME code, if required.

With the choice of one-, two-, and four-pass configurations, and with heat transfer surfaces ranging from 1.2 to 576 square feet, SSCF offers a low-cost, thermally efficient, dependable solution to your process fluid temperature control needs.

Expertise.

The benefit of more than seventy-five years of research, design capability, and experience in heat transfer is behind the construction of every SSCF unit. That experience is evident in a manufacturing process that yields consistently high results and has received ISO 9001 registration.

If you need a special solution to a difficult heat transfer problem, call us first. Our pre-engineered designs often permit special problems to be solved with standard solutions.

Quality.



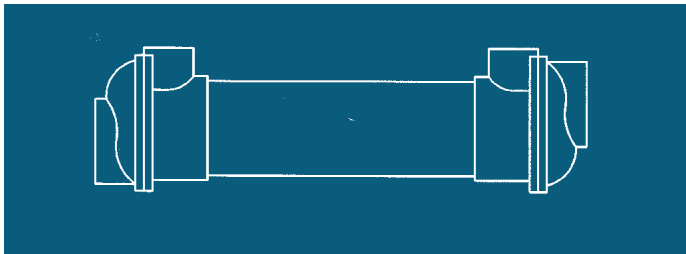
Service.

Fast delivery.

When your heating or cooling process application requires a stainless steel heat exchanger, it shouldn't take months to get it. With SSCF it won't.

To meet your specific needs in the shortest amount of time, parts and subassemblies, as well as on-the-shelf heat exchangers, are kept in stock. This means you can have a pre-engineered or precision-crafted unit made quickly to suit your application. Even replacement parts are available on short notice.

2-inch



SINGLE-PASS ONLY

Figure 1 Single-pass

3-, 4-, 5-, 6-, and 8-inch



SINGLE, TWO, OR FOUR-PASS

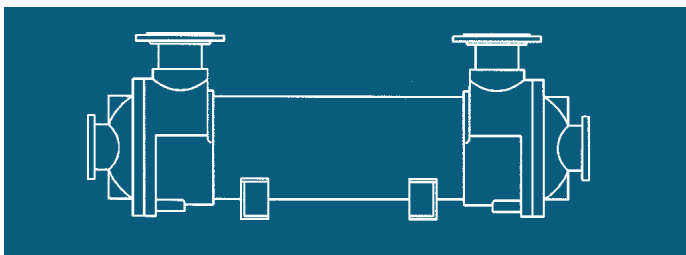
ASME code if required.*

Figure 2 & 3 Single-pass

Figure 4 Two-pass

Figure 5 & 6 Four-pass

10- and 12-inch

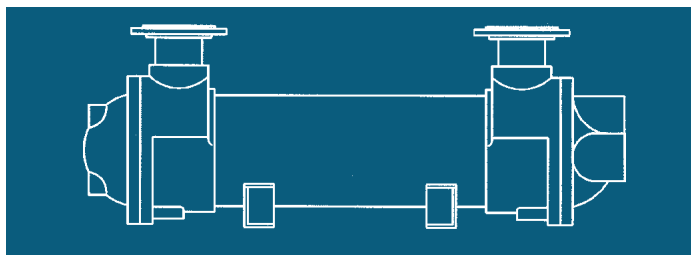


FLANGED CONNECTIONS. SINGLE PASS

Flanged shell side connections.
Flanged tube side connections.

Figure 7 Single-pass

10- and 12-inch



TWO OR FOUR-PASS

Flanged shell side connections.

NPT connections on 10" two- and four-pass units.

NPT connections on tube side of 12" four-pass units.

Flanged tube side connections on tube side of 12" two-pass units.

Figure 8 Two-pass (threaded)

Figure 10 Four-pass (threaded)

Figure 9 Two-pass (flanged)

See detailed information on last two pages of this brochure.

* 4-inch through 12-inch can be furnished to ASME Code Section VIII, Division 1, if required.

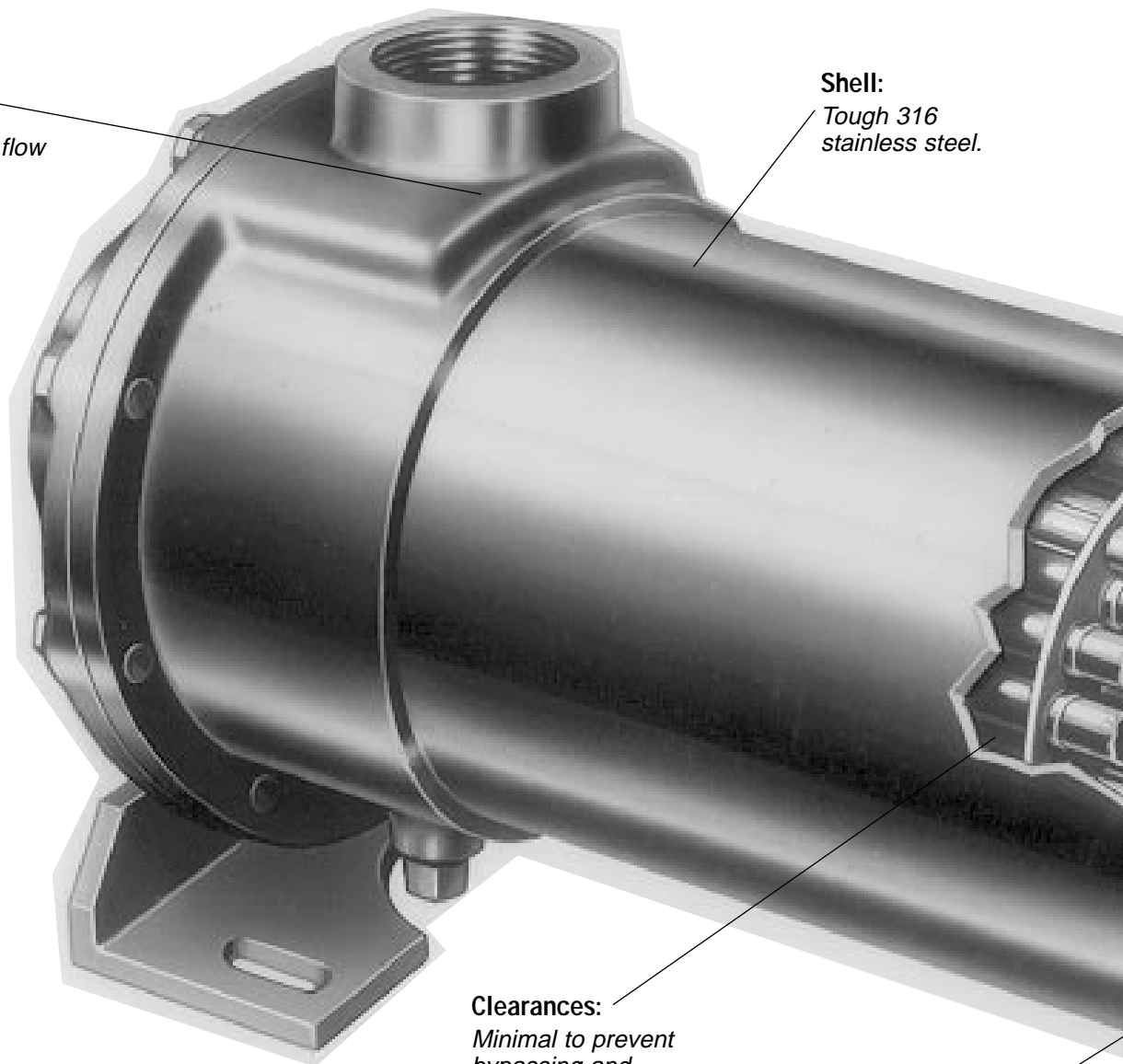
SSCF STAINLESS STEEL

Entrance Ports:

Enlarged under connections for unrestricted fluid flow into bundle.

Shell:

Tough 316 stainless steel.



Clearances:

Minimal to prevent bypassing and ineffective areas.

Baffles:

Close tolerance baffles with flanged lips ensure large tube contact area.

NOTE: Diagram represents 2" - 8" units.

EL HEAT EXCHANGERS

The SSCF is the perfect low-cost and dependable solution to your process fluid temperature control problems.

Baffles:

The spacing is set to optimize heat transfer and reduce pressure loss.

Carbon Steel Bolting:

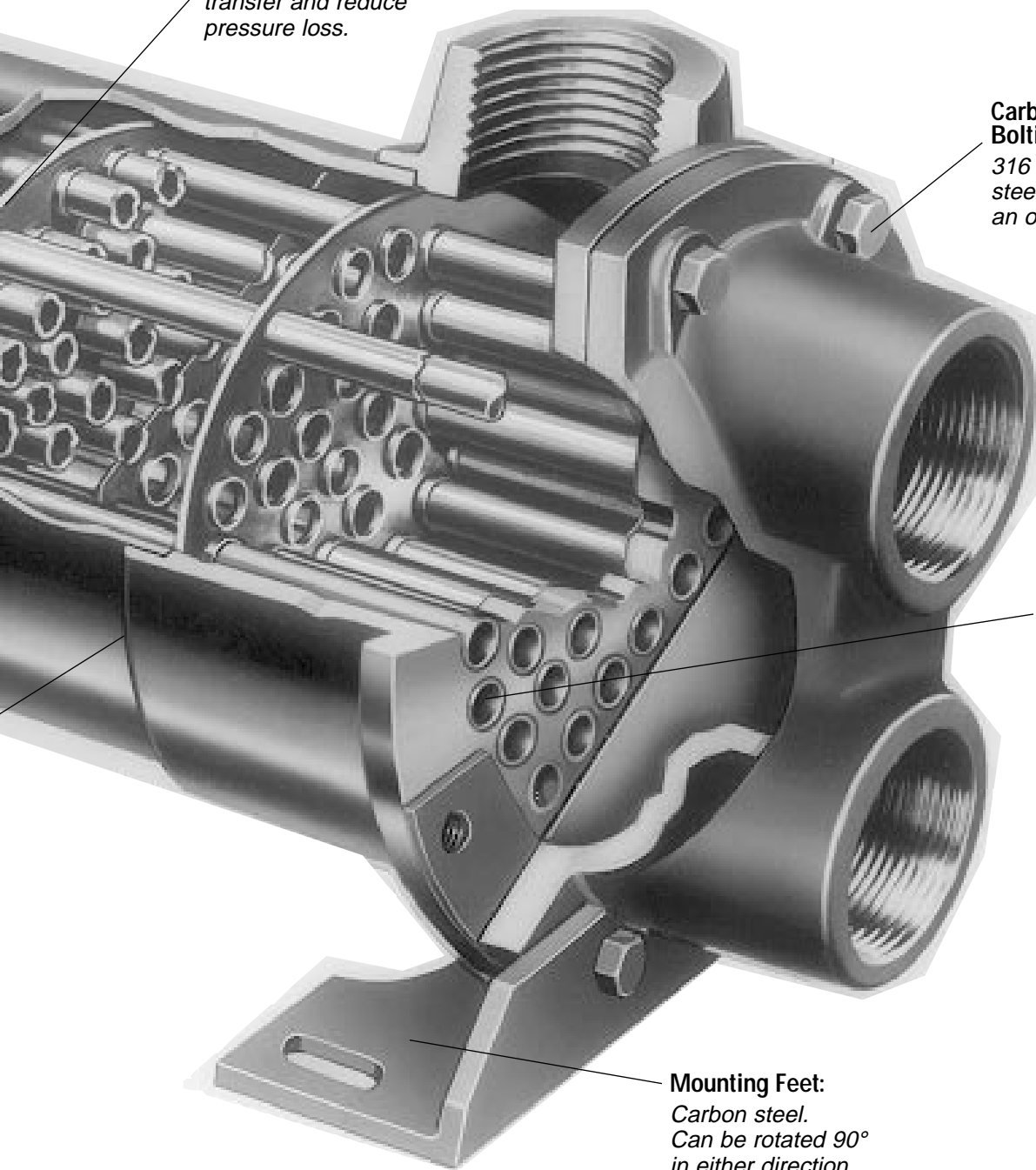
316 stainless steel available as an option.

Tubes:

Straight tubes are easy to clean and are roller expanded into tube sheets for tight, leakproof fit.

Mounting Feet:

*Carbon steel.
Can be rotated 90°
in either direction.*



SSCF 2-3-4-5-6-8-inch

DESIGN TEMPERATURES AND PRESSURES

SSCF PRESSURE AND TEMPERATURE RATINGS

		DESIGN PRESSURE		TEST PRESSURE		DESIGN TEMPERATURE	
		PSI	Kg/Cm ²	PSI	Kg/Cm ²	°F	°C
2-inch	Shell Side	225	15.8	338	23.8	450	232
3-inch							
4-inch							
5-inch	Tube Side	150	10.5	225	15.8	450	232
6-inch							
8-inch							

NOTE:
For steam service, steam in shell only, maximum steam pressure 225 PSI. For all fluids at temperature above 150° circulate hot fluid on shell side only. Avoid temperature shock from abrupt changes in fluid temperatures.

UNIT SIZE	SURF. Sq. Ft. *	A	B	C	D	G	H	J	K	SINGLE-PASS ONLY					TWO-PASS ONLY					FOUR-PASS ONLY						N	O	T	W	X	WT. LBS.	
										L	M	P	U	Y	L	M	P	U	Y	L	M	P	U	Y	Z							
02008	1.2			1½	—	—	—	—	—	½		2¾	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6½	—	—	6
02008	1.2			1½	—	—	—	—	—	½		2¾	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6½	—	—	6	
02014	2.1	2½	2¾	1½	—	—	—	—	—	1	¾	2¾	17	¾	—	—	—	—	—	—	—	—	—	—	—	—	—	12½	—	—	8	
02014	2.1			1½	—	—	—	—	—	1		2¾	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12½	—	—	8	
03008	2.4							¾ x ¾				11½					10½											6½	7½		12	
03014	4.3							¾ x ¾				17½					16½											12½	13½		15	
03024	7.3	3½	4¾	2½	2½	3¼	4	¾ x ¾	½	1	1½	2¾	27½	¾	1	1	2¾	26½		1	1	¾	2½					22½	23½	1½	20	
03036	11							¾ x ¾				39½					38½											34½	35½		26	
04014	8.3											18					17½											11½	12½		41	
04024	14.1	4½	5½	3½	3½	3½	4½	½ x 1½	¾	1½	2	3¾	28	½	1½	1½	3¾	27½	1¾	1½	¾	3¾						21½	22½		50	
04036	21.1											40					39½											33½	34½	2½	60	
05014	9.1											18½					17½											11½	11½		50	
05024	15.7	5½	6½	3½	3½	4	5	½ x ¾	¾	1½	2½	3½	28½		1½	1½	3½	27½	1½	1½	1	3½						21½	21½	3½	60	
05036	23.5											40½					39½											33½	33½		84	
06024	23											28½					28½											20½	21½		80	
06036	34	6½	7½	4½	4½	5	6	½ x ¾	¾	2	3	4	40½		2	2	4	40½	1¾	2	1½	4						32½	33½	3½	105	
06048	46											52½					52½											44½	45½		130	
08024	41											28½					28											19½	20½		115	
08036	62											40½					40											31½	32½		200	
08048	83											52½					52											43½	44½		240	
08060	103	8½	9½	5½	5½	7	8½	¾ x 1½	¾	3	3	4½	64½		3	2½	4½	64	2½	3	2	4½						55½	56½	4	280	
08072	124											76½					76											67½	68½		320	
08084	145											88½					88											79½	80½		360	
08096	166											100½					100											91½	92½		400	

- All dimensions are in inches.
- All connections are NPT.
- Use only certified drawings for construction.

* Surface areas are based on the use of

¼" tubes in 2-4" dia. units and

¾" tubes in 5-, 6-, and 8" dia. units.

SSCF TUBE LAYOUTS

NOMINAL UNIT SIZE	TUBE SIZE		
	¾" OD	¾" OD	¾" OD
2	28	14	—
3	56	28	—
4	108	48	—
5	168	80	28
6	252	116	40
8	438	210	72
10	—	328	112
12	—	488	172

SSCF 10-12-inch

SSCF PRESSURE AND TEMPERATURE RATINGS

		DESIGN PRESSURE		TEST PRESSURE		DESIGN TEMPERATURE	
		PSI	Kg/Cm ²	PSI	Kg/Cm ²	°F	°C
10-inch	Shell Side	225	15.8	353	24.8	400	204
12-inch	Tube Side	150	10.5	295	20.7	400	204

NOTE:
For steam service, steam in shell only, maximum steam pressure 225 PSI. For all fluids at temperature above 150° circulate hot fluid on shell side only. Avoid temperature shock from abrupt changes in fluid temperatures.

UNIT SIZE	SURF. Sq. Ft. *	A	B	C	D	E	F	G	H	J	K	† L	N	O	T	W	SINGLE-PASS ONLY						TWO-PASS ONLY						FOUR-PASS ONLY						WT. LBS.	
																	M	P	U	X	Y	Z	M	P	U	X	Y	Z	M	P	U	X	Y	Z		
10024	64														17	3½																			265	
10036	96														29	15½				34														320		
10048	128	10%	13	12	7½	1%	2%	5½	8	¾ x ¾	¾	4	¾	¾	41	27½	4	8½	58	15½	—	—	3	6%	29% 41%				—	2½	6%	29% 41%				265
10060	160														53	39½			70															375		
10072	192														65	51½			82															430		
																																			485	
12024	96														17	3½			35															365		
12036	144														29	15½			47															445		
12048	192	12%	15	13	8½	1%	2%	6½	9	¾ x ¾	¾	4	¾	¾	41	27½	6	9	59	15½	—	—	4	10%	34% 46%				—	3	7%	30% 42%				445
12060	240														53	39½			71															525		
12072	288														65	51½			83															605		
																																			685	

All dimensions are in inches. Use only certified drawings for construction.

*For 10000 and 12000 series, tube surfaces are based on ¾" OD tubes.

†300 LB A.N.S. for temperatures 300°F to 400°F.

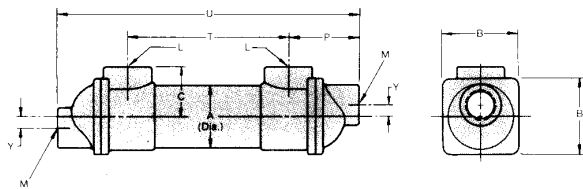


Fig. 1 2" DIAMETER, SINGLE-PASS

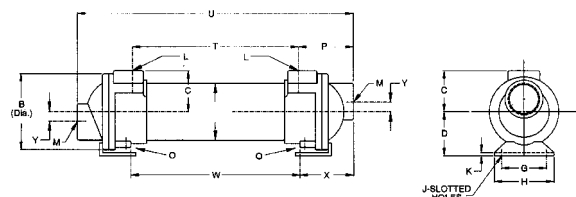


Fig. 2 3" DIAMETER, SINGLE-PASS

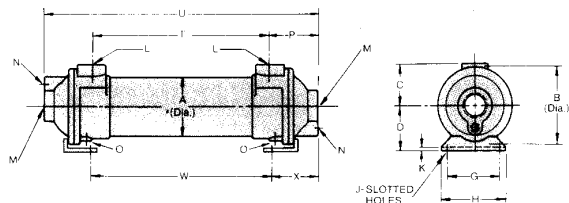


Fig. 3 4", 5", 6", & 8" DIAMETER, SINGLE-PASS

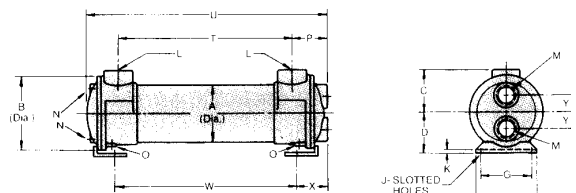


Fig. 4 3", 4", 5", 6", & 8" DIAMETER, TWO-PASS

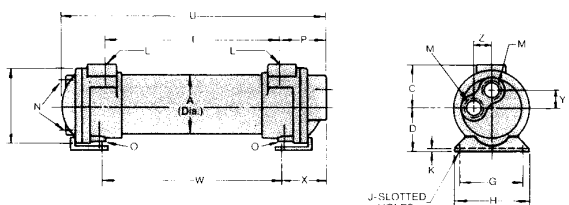


Fig. 5 3", 4", 5" & 6" DIAMETER, FOUR-PASS

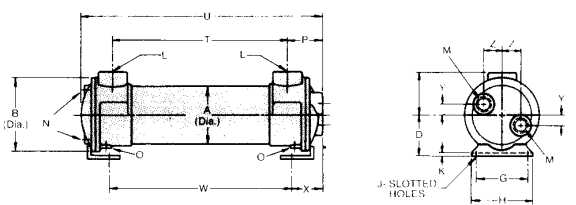


Fig. 6 8" DIAMETER, FOUR-PASS

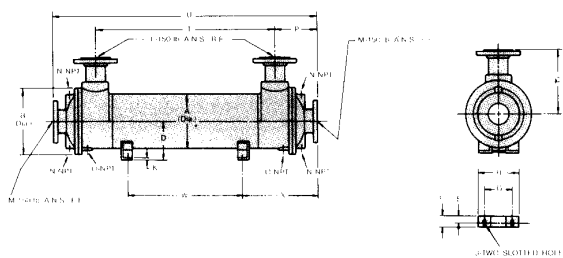


Fig. 7 10" & 12" DIAMETER, SINGLE-PASS

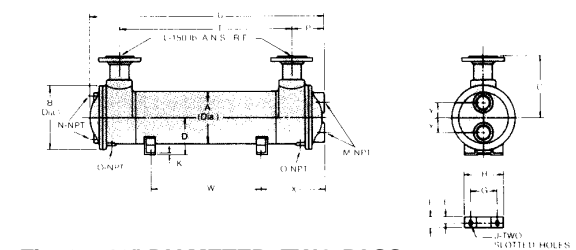


Fig. 8 10" DIAMETER, TWO-PASS

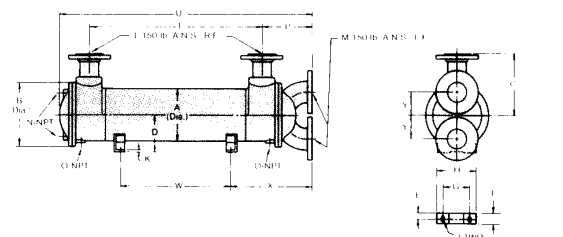
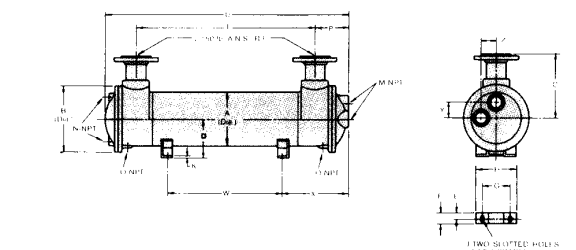


Fig. 9 12" DIAMETER, TWO-PASS



**Fig. 10 10" & 12" DIAMETER, FOUR-PASS
(threaded tube side connections)**

Models of efficiency.

Engineered/customized
heat exchangers
for process and other
heating/cooling
applications.



Plateflow®
plate-and-frame
exchangers.



Pre-engineered
shell-and-tube heat
exchangers for general
heating and cooling.



Heat transfer coils.



FanEx® and AirEx® air/oil,
air/air, or air/water
heat exchangers.



For more information on this product please contact:

Southgate Process Equipment

Phone: (770) 594-9970

Fax: (770) 594-0036

sales@southgateprocess.com

www.southgateprocess.com

Standard  **change**
a xylem brand

Formally ITT Standard, American Standard, and Ross

HEAT EXCHANGERS AND PRESSURE VESSELS

STANDARD XCHANGE (formerly ITT STANDARD)	Commercial and engineered (TEMA) shell and tube heat exchangers. Plate and frame heat exchangers with various material combinations, gasketed, welded and double wall designs. Brazed plate heat exchangers with customized designs.
MUNTERS/ DES CHAMPS	Air to air economizers , tubular and plate style for high temperature applications. Indirect gas fired heaters.
HEAT EXCHANGER DESIGN, INC	Longitudinally finned hairpin and double pipe heat exchangers, large shell and tube heat exchangers tank heaters and suction heaters . TEMA B, C, and R.
INDUSTRIAL HEAT TRANSFER	Finned tube heat transfer coils with continuous plate fin design. Many combinations of metals and custom designs.
ENERQUIP, LLC	Shell and tube heat exchangers, all stainless steel sanitary designs for pharmaceutical and food applications.
ELANCO	Spiral heat exchangers, standard and custom ASME VIII.
J D COUSINS, INC.	Large fabricated tanks and shell and tube heat exchangers for chemical, power and general industrial.
FABSCO	Air cooled forced draft finned tube heat exchangers. ASME VIII and API 661.
CIRCLE-S PRODUCTS	Dry-Flo moisture separators , coalescers, receivers and dry types in stock and custom sizes. Surge tanks , small tanks and ASME VIII pressure vessels .
SUPER RADIATOR	Air Cooled heat exchangers and Coils for general industrial, food and pharmaceutical applications. Banked sections, vertical or horizontal air flow.

PACKAGED SYSTEMS AND COMBUSTION EQUIPMENT

GAUMER COMPANY	Electric heaters , custom and stock. Immersion, circulation, duct, strip and band heaters and systems with optional controls.
KERR PUMP & SUPPLY	Custom designed skid mounted packaged systems with controls, filters, tanks, pumps, heat exchangers, etc.
ITT NEO-DYN & ITT CONOFLOW	Regulators, transducers, actuators, positioners, temperature switches and pressure switches .

CHILLERS

PARKER HANNIFIN-DH	Industrial chillers , air and water cooled in complete packaged systems. Standard and custom designs. Compact central evaporative chillers and cooling towers .
---------------------------	--