

PRESSURE GAUGES



LAZY HAND WATER TEST GAUGE

3/4" FHT brass swivel connection

Regular pressure hand (shown at zero) pushes LAZY hand (shown at 240 lbs.) to peak operating or surge pressure point where it remains until you manually reset it.

Excellent to determine if P/T valve is leaking from failure or if leaking is caused by surge or excessive pressures (gauge attached to boiler drain overnight)

LAZY hand operates over entire gauge range.



PART NUMBER	PSI
1423	0-160#
1428	0-300#

AIR TEST GAUGE ASSEMBLIES

All parts precision made and assembled with sealant

3/4" FPT

2" Gauge

* Ashcroft



PART NUMBER	PSI	INCREMENTS
1427	0-30 #	1/2#
1427-A*		
1420	0-60#	1#
1420-A*		
1421	0-100#	2#
1421-A*		

AIR TEST GAUGE ASSEMBLIES



Photo shown is top mount

3/4" or 1" FPT
All parts precision made and assembled with sealant
2" Gauge
Bell reducer type
* Add -B for bottom mount

PART NUMBER	PSI	FPT SIZE
1410	1/10-15#	3/4"
1411*	0-30#	
1412*	0-60#	
1413	0-100#	
1414	0-30#	
1415	0-60#	1"
1416	0-100#	
1419	1/10-15#	

WATER TEST GAUGE ASSEMBLIES

3/4" FHT brass swivel connection

PART NUMBER	PSI	GAUGE SIZE
1431	0-160 #	2"
1432	0-300 #	
1440	0-160 #	2-1/2"
1430	0-300 #	



CONNECTION ONLY

PART NUMBER	DESCRIPTION
1402	3/4" FHT X 1/4" FPT Swivel connection

1/10 PSI AIR TEST GAUGE ASSEMBLY

15 # gauge scaled in 1/10# increments

Complies with Section 319.0 of Uniform Plumbing Code

All parts precision made and assembled with sealant

3/4" FPT

2" Gauge



PART NUMBER	PSI	INCREMENTS
1726-10G	0-15#	1/10#

SEPARATE AIR TEST GAUGE COMPONENTS

PART NUMBER	DESCRIPTION
1404	Air test gauge body ONLY
1405	Air test gauge body with air valve
1406	1/8" Air valve with cap ONLY
1417	3/4" Bell reducer with air valve
1418	1" Bell reducer with air valve

For individual pressure gauges see the next page

PRESSURE GAUGES



PRESSURE GAUGES

General purpose utility gauges ASME grade B 3-2-3%

Quality & Economy

Typical Applications

Air conditioning systems Heating systems Hydraulic systems

Sprinkler and irrigation Pressure regulators

Water pumps Air line testing

All gauges to be installed in accordance with ASME B40.1. All gauges are precision instruments and must be handled with care. A failure resulting in injury damage may be caused by pressure beyond top of scale, excessive vibration or pulsation excessive temperature, corrosion of the pressure containing parts or other misuse. **DO NOT USE ON OXYGEN SERVICE**

5 PSI LOW PRESSURE TEST GAUGE DIAPHRAGM GAUGE

Detects pressure in fractions of ounces

2-1/2" diameter

1/4" MPT brass connection

Extremely accurate



**PART
NUMBER**
1736

ASHCROFT PRESSURE GAUGES



Plastic face

1/4" MPT brass connection

* 2" Gauge is divided into
1# increments

PASCO PRESSURE GAUGES



Steel case

1/4" MPT brass connection

Plastic face

* 2" Gauge is divided into
1# increments

PSI	GAUGE DESCRIPTION			
	2"	2-1/2"	3-1/2"	4-1/2"
15#	1726-10	--	--	--
30#	1727	1739	1751	--
60#	1728*	1740	1752	1764
100#	1729	1741	1753	1765
160#	1730	1742	1754	1766
200#	1731	1743	1755	1767
300#	--	1744	1756	1768
400#	--	--	1757	1769
600#	--	--	1758	--

PSI	GAUGE DESCRIPTION			
	2"	2-1/2"	3-1/2"	4-1/2"
15#	1726A	1738A	--	--
30#	1727A	1739A	1751A	--
60#	1728A*	1740A	1752A	1764A
60#	1728BM	1/4" BACKMOUNT		
100#	1729A	1741A	1753A	1765A
160#	1730A	1742A	1754A	1766A
200#	1731A	1743A	1755A	1767A
300#	1732A	1744A	1756A	1768A

2-1/2" LIQUID FILLED PRESSURE GAUGES

For use where gauge is
exposed to corrosion,
vibration and pulsation.
Stainless steel case



1/4" Brass MPT

PART NUMBER	PSI
1772	0-30#
1773	0-60#
1774	0-100#
1776	0-200#
1777	0-300#

PRESSURE GAUGES



COMPOUND & VACUUM GAUGES



2-1/2" diameter
1/4" MPT brass connection
Steel case

PART NUMBER	DRAIN CONNECTION
1422	30" Vacuum
1462-A	30" Vacuum - 30 PSI
1463-A	30" Vacuum - 60 PSI
1464-A	30" Vacuum - 150 PSI
1465-A	30" Vacuum - 300 PSI

PIGTAIL SIPHONS

1/4" IPS
Complies with ASTM B-53
600 PSI-750°F



PART NUMBER	MPT MATERIAL	STYLE
1459-B	Brass	Straight
1459	Steel	
1460-B	Brass	Angle
1460	Steel	

PRESSURE GAUGE SNUBBER

Pulsation damper

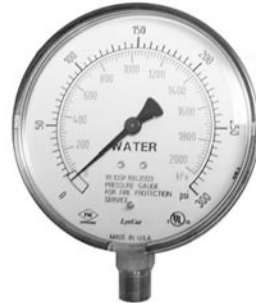


Protects air pressure gauges from sudden pressure surges
Brass
1/4" MPT x 1/4" FPT

PART NUMBER
1469

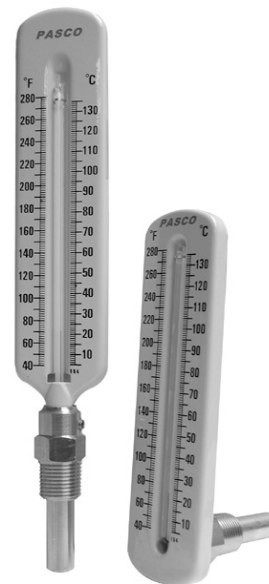
FIRE PROTECTION SPRINKLER GAUGE

3-1/2" diameter
1/4" MPT brass connection
FM approved
UL listed



PART NUMBER	SYSTEM	PSI
1761-A	Wet	0-300#

HOT WATER THERMOMETERS



Dual Scale:
40° - 280°F
10° - 130°C
1/2" MPT connection
1442-1444 7" overall length
1443-1445 10-1/2" overall length

PART NUMBER	MPT MATERIAL	STYLE
1442	Steel	Angle
1444	Brass	
1443	Steel	Straight
1445	Brass	

PRESSURE GAUGES



BOILER GAUGES PRESSURE/TEMPERATURE

Specially constructed for use on hot water heater boilers, these combination gauges give accurate indication of temperature and pressure. Gauges are designed to withstand the conditions normally encountered on domestic heating systems.



Dual scale:
60° - 260° F
20° - 120° C
3-1/2" diameter
1/2" MPT brass connection
Steel case
Glass face

PART NUMBER	PSI	CONNECTION AND ELEMENT LENGTH
1451	0-75 PSI	2-3/4" Bottom mount
1452		2-3/4" Back mount



Dual scale:
60° - 320° F
20° - 160° C
2-3/4" diameter
1/4" MPT brass connection
Center backmount
Polycarbonate face

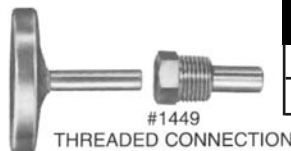
Back mount ONLY

PART NUMBER	PSI	CONNECTION AND ELEMENT LENGTH
1435	0-75 PSI	2-1/2"
1437		3-1/2"

DIAL TYPE THERMOMETERS

Economical - Backmount

Dual Scale:
40°-250°F, 0,-120°C,
Accuracy to 1°
5°Increments
2-1/2" Face
Brass wells
Choice of adapters
Thermometer can be removed from adapter for easy installation



PART NUMBER	CONNECTION
1449	1/2" MPT
1449-C	Well ONLY



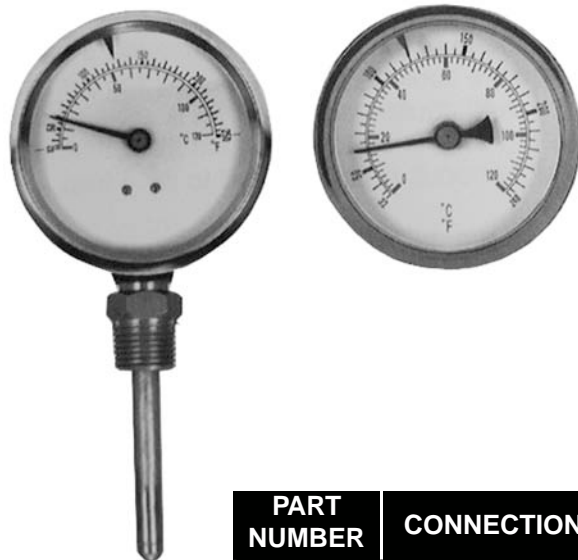
PART NUMBER	CONNECTION
1450	3/4" CWT Solder
1450-W	Well ONLY

Thermometers supplied complete with connection

DIAL TYPE THERMOMETERS

Superior quality

Back or bottom mount
Dual scale:
32°-250°F, 0°-120°C
3-1/2" diameter
1/2" MPT brass connection
2-1/2" brass element (beyond MPT)
Corrosion resistant steel case



PART NUMBER	CONNECTION
1455	1/2" MPT CBM
1457	1/2" MPT Bottom



The following information has been gathered from various sources, including AMETEK's Pressure Gauge Handbook and ANSI B-40. The descriptions and topics mentioned cover the particular gauges that are found in **PASCO's** catalog.

Commercial Gauges:

Gauges found on much of the equipment used in manufacturing plants, stores, garages, etc. are classified as commercial gauges or general purpose gauges. Typical equipment uses include refrigeration units, pumps, compressors and fire extinguishers. In such applications, although the gauges may be ruggedly built, service conditions are not expected to be severe. These gauges are of Grade B accuracy and could have metal or plastic cases and glass or plastic faces.

Commercial gauges are low in cost and designed without refinements to simplify maintenance or repair due to the fact that it is less expensive to replace them than to repair them.

Grade B Gauges

GRADE B Gauges are used in the above mentioned general purpose applications. These gauges are often referred to as 3-2-3 gauges. The reason is that they have a an accuracy of 2% of span over the middle half of the scale and 3% of span over the first and last quarters of the scale. Grade B gauges are not high accuracy gauges, but suitable for commercial installations.

Gauge Take Up

The average user believes that if the gauge pointer is not on zero, then the gauge must be faulty and will refuse to accept the gauge or try to reset the pointer, damaging the gauge. As shown above, a GRADE B gauge pointer could not be at zero and still be within spec because of the 3% accuracy at either end of the scale. A GRADE B gauge will begin more accurate measurement once the pointer goes past the first 3 graduations of the scale.

Frequency Of Graduations

The frequency of the graduation on a gauge should bear a relationship to the grade of accuracy. For example, it is somewhat misleading to divide the gauge into 100 increments if the gauge is made to GRADE B accuracy.

Pulsation Damper

Push checks or throttle plugs are the least expensive pulsation dampers. These checks are usually made from the same material as the pressure port of the gauge and they are easily installed by pushing into the gauge stem. The small hole in the check helps alleviate pressure surges or spikes which may cause gauge failure. In the event of gauge failure, due to fatigue or corrosion, the check may also limit the flow of pressure medium if the gauge develops a leak. The small diameter hole in the check may become clogged with debris preventing gauge operation. The gauge should be checked from time to time and this hole kept free of debris.

Gauge Valves or Cocks - IMPORTANT

Gauge valves or cocks are installed in the pipeline leading to the gauge. The valve provides a means of shutoff so that the gauge can be removed from the line without loss of pressure. The valve also allows the gauge to be completely closed off from the pressure source except when it is necessary to take a reading. Clogging of the gauge stem is minimized and the gauge will also be isolated from pressure surges or spikes. This arrangement will nearly prevent early or unexpected gauge failure and greatly extend the life of the gauge.

Siphons

The purpose of the siphon is to provide a head exchanger where steam in the line can be condensed and the resulting condensate cooled prior to entering the pressure gauge. This prevents the melting of the soft soldered joints of the gauge which could cause gauge failure. A pigtail siphon is a coiled tube. This coil provides a large cooling surface and the trap created prevents the condensate from draining away. Incoming vapor must pass through this liquid seal and is cooled. This type of siphon is often referred to as a trap.

Installation

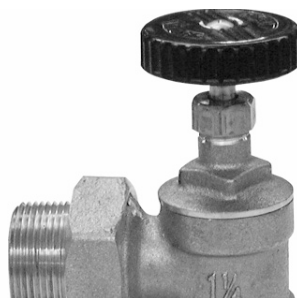
In all installations, ANSI B40. must be strictly followed. Always use the wrench flat on the gauge stem to tighten the gauge into the fitting. Never APPLY TORQUE TO THE GAUGE CASE. It is suggestion that a joint compound instead of thread sealing tape be used. Tape sheds can get into the pressure gauge port of the gauge causing blockage.



HEATING SPECIALTIES

PASCO introduces our new heating specialty line for the plumbing trade. Our new line includes those specialty items used by plumbers in steam radiator and oil fired heating. The addition of this line goes hand in hand with our pressure gauge and thermometer items in our catalog.

As with all of our plumbing items, our new heating specialty line is the professional quality required by the professional plumber.





STEAM ANGLE RADIATOR VALVES

BEST QUALITY!



Bronze
15 WSP
60 WOG
FIP x Male Union
EPDM Disc
Phenolic Handwheel
Female IPS

PART NUMBER	IPS SIZE
499	1/2"
501	3/4"
502	1"
503	1-1/4"
504	1-1/2"
505	2"

HOT WATER ANGLE RADIATOR VALVES



Bronze
60 WOG
FIP x Male Union
Bronze Disc
Phenolic Handwheel
Female IPS

PART NUMBER	IPS SIZE
515	1/2"
516	3/4"
517	1"
518	1-1/4"
519	1-1/2"

STEAM ANGLE RADIATOR VALVES



Brass
15 WSP
60 WOG
FIP x Male Union
EPDM Disc
Phenolic Handwheel
Female IPS

PART NUMBER	IPS SIZE
498	1/2"
508	3/4"
509	1"
510	1-1/4"
511	1-1/2"

HOT WATER ANGLE RADIATOR VALVES - SOLDER



Bronze
60 WOG
Solder x Male Union
Bronze Disc
Female Solder

PART NUMBER	IPS X COP SIZE
520	1/2"
521	3/4"



STRAIGHT RADIATOR GATE VALVES



Water or Steam
Bronze
125 WSP
200 WOG
FIP X Male Union
Bronze disc
Phenolic Handwheel

PART NUMBER	IPS SIZE
522	1/2"
523	3/4"
524	1"
525	1-1/4"
526	1-1/2"

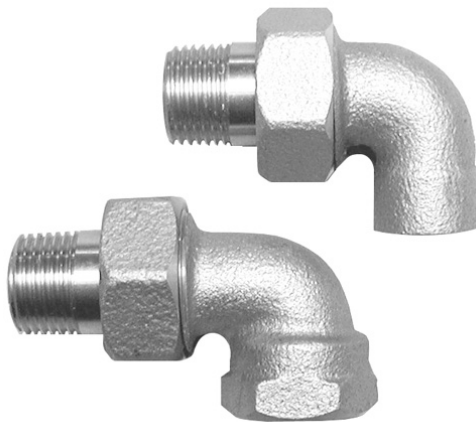
ANGLE CONVECTOR STEAM VALVE



Bronze
15 WSP
60 WOG
FIP X Female Union
EPDM Disc
Phenolic Handwheel

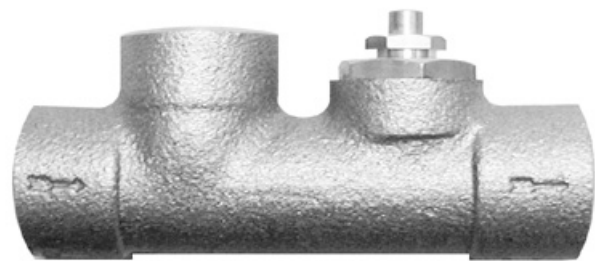
PART NUMBER	IPS SIZE
528	1"
529	1-1/4"

UNION ELBOWS BRONZE



PART NUMBER	SIZE	TYPE
530	1/2"	FIP X Male Union
533	3/4"	
534	1"	
535	1-1/4"	
539	1/2"	Solder x Male Union
540	3/4"	

SOLDER PURGE BALANCING VALVES BRONZE - 80 WOG

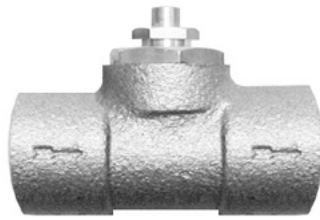


PART NUMBER	COPPER SIZE
541	3/4"
542	1"
543	1-1/4"



SOLDER BALANCING BALL VALVES

Forged brass
150 WSP
400 WOG
Screwdriver slot stem



PART NUMBER	SWT SIZE
544	1/2"
545	3/4"
546	1"
547	1-1/4"

IPS BALANCING BALL VALVES

Bronze
150 WSP
400 WOG
FIP X Male Union
Screwdriver slot stem



PART NUMBER	IPS SIZE
548	1/2"
549	3/4"

SOLDER X MALE UNION BALANCING BALL VALVES

Bronze
150 WSP
400 WOG
Screwdriver slot stem



PART NUMBER	SWT X MALE UNION
550	1/2"
551	3/4"

IPS CIRCULATOR VALVE

Bronze
1/4" Turn ball type
FIP X Male Union
Phenolic Handwheel



PART NUMBER	IPS SIZE
552	1/2"
553	3/4"

SOLDER CIRCULATOR VALVE

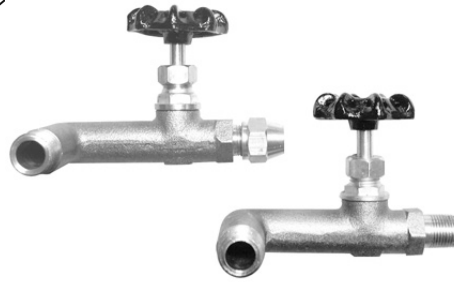
Bronze
1/4" Turn ball type
Solder X Male Union
Phenolic Handwheel



PART NUMBER	SWT X MALE UNION
554	1/2"
556	3/4"



OIL TANK VALVE



Brass
Metal to metal seat

PART NUMBER	SIZE
561	1/2" MPT X 3/8" FPT
562	1/2" MPT x 3/8" Flare

CAST IRON AIR PURGER



60 WOG

PART NUMBER	SIZE
580	1" IPS
581	1-1/4" IPS

BRONZE MONO FLOW AND VENTURI TEES



Copper x Copper

PART NUMBER	SWT SIZE	STYLE
563	3/4" X 1/2"	Mono Flow
564	1" X 1/2"	
565	1" X 3/4"	
566	1-1/4" X 1/2"	
567	1-1/4" X 3/4"	Venturi
568	3/4" X 1/2"	
569	1" X 1/2"	
570	1" X 3/4"	
571	1-1/4" X 1/2"	
572	1-1/4" X 3/4"	

RADIATOR VALVE HANDLES

621

622

623



PART NUMBER	DESCRIPTION
621	Three lugs
622	Three set screws
623	4 IN 1

BRASS TRI COCK WHEEL HANDLE



PART NUMBER	IPS SIZE
627	3/8"
628	1/2"



AUTOMATIC AIR VENT

Forged brass body
200 WOG
Side vent



PART NUMBER	IPS SIZE
573	1/8"
574	1/4"

RADIATOR QUICK VENTS

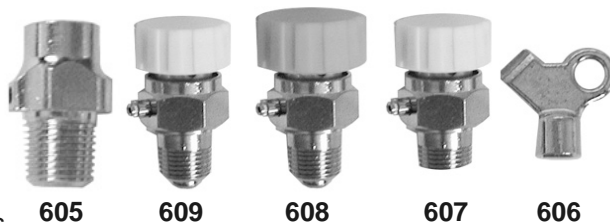
Fast venting allows quick elimination of air during each heat cycle. 5 PSI maximum operating pressure. IPS size.



PART NUMBER	DESCRIPTION
614	1/8" Adj. angle
615	1/8" Angle
616	1/8" Straight
617	1/4" Straight
618	1/2"-3/4" Straight

MANUAL AIR AND CONDENSATE VENTS

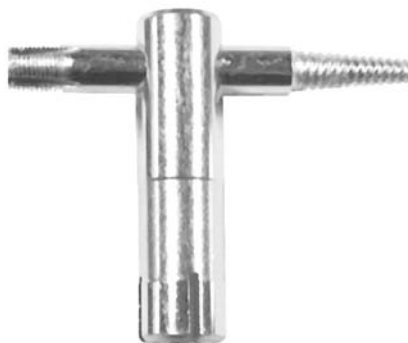
1/8" threads
Nickle plated brass
Qty pack 25



PART NUMBER	DESCRIPTION
605	Standard coin/key combo
605LK	Standard LESS key
606	Key ONLY
607	Short coin/key combo
608	Wood handle
609	Plastic handle

3 IN 1 RADIATOR AIR VENT WRENCH

Inserts
Extracts
Renews threads



PART NUMBER
4947



E-Z FIX BOILER PLUG

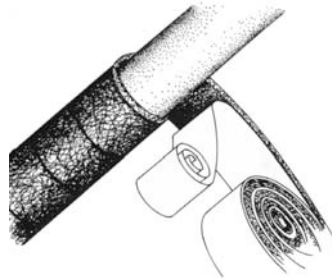
Economical - Dependable
Efficient
1-1/2" Diameter
Display card



PART NUMBER	PER DISPLAY
620	12

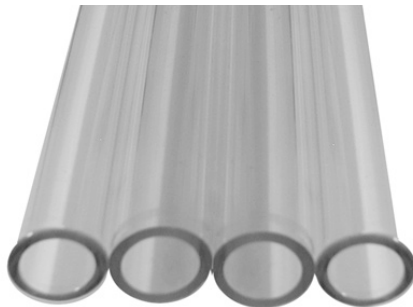
FIBERGLASS PIPE WRAP

Isolate radiator heat pipes
3" width
25' length
Clear overlap



PART NUMBER
2647

TUBULAR GAUGE GLASS



Standard Duran
5/8" Diameter

PART NUMBER	LENGTH
5808	8"
5810	10"
5812	12"
5814	14"
5818	18"
5824	24"
5836	36"

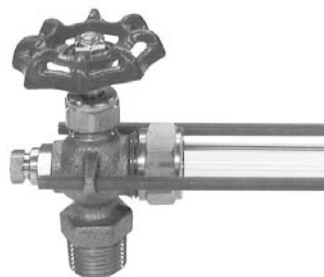
Redline tubular gauge glass makes it easier to read the liquid level.
5/8" diameter

PART NUMBER	LENGTH
5812RL	12"

Only shipped 12 per box

TUBULAR WATER GAUGE VALVE SET

Bronze
1/2" MPT
For liquid level pressures up to 125 PSI



Individually boxed

PART NUMBER	LENGTH
610	12"

Valve ONLY

PART NUMBER
611

Nut for water gauge set
Brass
10 per bag

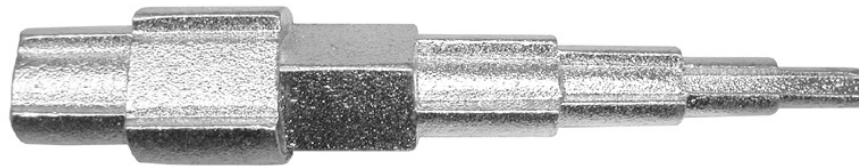
PART NUMBER
612

Friction ring for water gauge set
100 per bag

PART NUMBER
613



**RADIATOR SPUD WRENCH
FOR 1/2" THROUGH 2" SPUDS**



PART NUMBER
4558

INSPECTION MIRROR - TELESCOPING



Fully adjustable
1-1/2" Diameter mirror
Individual display card

PART NUMBER	LENGTH
4914	24"

**SQUEEZE AND "POP" CHAIN
STYLE GAUGE GLASS CUTTER**

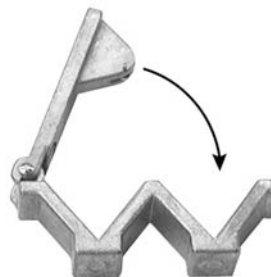
Wrap chain around the tube
and hook nearest chain pin in
jaw. A quick twist of the wrist,
a slight squeeze of and handle
and "pop". Cuts up to 3/4"
Made in U.S.A.
Individually display carded



PART NUMBER
599

**QUARTER TURN "W" STYLE
GAUGE GLASS CUTTER**

Operated by either holding the
cutter or placing cutter on a
flat working surface
Made in U.S.A.
Individually display carded



PART NUMBER
598



**CIRCULATOR PUMP
REPAIR PARTS**



Fits B&G, Taco and popular circulators

PART NUMBER	DESCRIPTION	PACK
660	Circulator gaskets, nuts & bolts. 2 gaskets, 4 nuts & bolts	10 Sets Per Box
662	Circulator flange gaskets Pair to a bag	10 Pair Per Bag
664	Circulator flange nuts & bolts 4 nuts & 4 bolts per bag	10 Sets Per Box

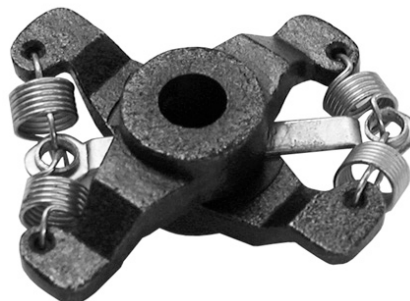
**TACO CIRCULATOR
FLANGE KIT**



Kit contains
2 flanges
4 bolts
4 nuts

PART NUMBER	SIZE
670	3/4"
671	1"
672	1-1/4"

**CIRCULATOR COUPLING
FOR B&G**



Cast iron - Heavy duty springs
1/2" x 1/2" shaft

PART NUMBER
680

CIRCULATOR OIL

Specialty formulated oil for lubri-
cating oil burns, pumps, circula-
tors, etc.
Pull out spout extension
12- 8oz. tubes per case



PART NUMBER
690



FUEL OIL FILTERS*

Model 701 for use in small to average size homes and commercial buildings. May be used in one or two pipe systems. 3/8" NPT standard inlet
40 PSI working pressure.

Model 702 for use in larger homes and commercial buildings. May be used in one or two pipe systems. 3/8" NPT standard inlet - 40 PSI working pressure.

* Manufactured in the U.S.A. by General/Unfilter



PART NUMBER	UNIFILTER NUMBER	GENERAL NUMBER
701	77	1A-25A
702	99	24-700A

FUEL OIL FILTER ELEMENTS

Wool, felt or rayon



PART NUMBER	SIZE	UNIFILTER NUMBER	GENERAL NUMBER
704	Wool - Fits 701	88-CR	1A-30
705	Wool - Fits 702	101	2A-710
706	Rayon - Fits 701	RF-1	1A-25
707	Rayon - Fits 702	RF-2	2A-700A

E-Z CHANGE FILTER DRAINING SYSTEM

A professional system for handling used oil filters. Helps eliminate the mess and hassels associated with used filters.



PART NUMBER
708



**TANK GAUGE -
TANK WHISTLE**



Tank gauge for vertical or horizontal tanks. Sealed cork float and easy to read gauge.

Tank whistle signals when tank is full. Easily installed on the vent opening of the fuel oil tank.

PART NUMBER	DESCRIPTION
737	Tank gauge
738	Tank whistle

DUPLEX TANK BUSHINGS



2" Extra heavy cast iron hex bushing with brass compression fittings. Furnished with either 3/8" or 1/2" fittings

PART NUMBER	DESCRIPTION
710	Bushing w/ 3/8" fittings
711	Bushing body only for 3/8"
712	Bushing w/ 1/2" fittings
713	Bushing body for 1/2"

VENT CAPS



PART NUMBER	DESCRIPTION
720	1-1/4" Slip-on set screw and screen
722	1-1/4" IPS - galvanized
724	2" IPS - galvanized
721	2" Slip-on set screw and screen

OIL FILL BOX & FILL CAPS



Heavy pattern galvanized iron w/ brass plug

PART NUMBER	DESCRIPTION
730	2" IPS w/ brass plug
732	3" IPS w/ brass plug
734	2" Brass plug ONLY
736	3" Brass plug ONLY

Screw on fill cap

PART NUMBER	DESCRIPTION
739	2" IPS
740	2" IPS - Locking

PART NAME	PAGE	PART NAME	PAGE
Assembly	F-1	Radiator Straight Gate Valves	F-8
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