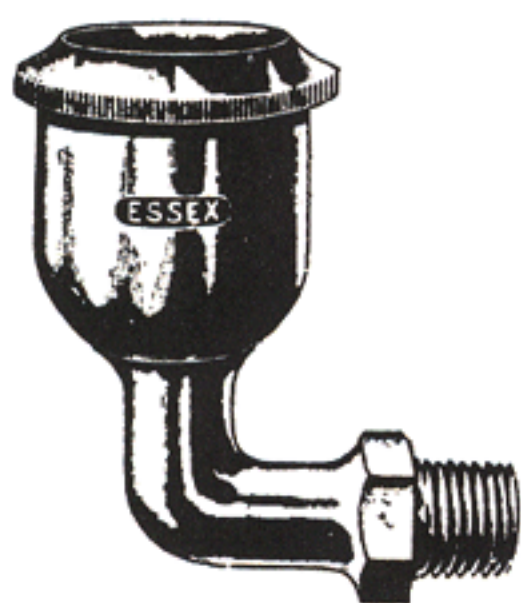




## Brass Oil Cups

**Fig. 9**  
Plain

Number	00	0	1	2	3	4	5	7
Outside Diam., inches	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2
Shank Pipe Thread, each	1/8	1/8	1/8	1/4	1/4	3/8	3/8	1/2



**Fig. 93**  
with Elbow Shank

Both Styles Are Regularly Furnished Without Wick. Tube and Wick Available on Request.

**Fig. 93 Carried in Sizes 1-3-5 Only**

## Sight Feed Lubricator

For Gas Engines, Air Compressors, Blowers, Etc.  
**BULL'S EYE TYPE**  
(Not for Steam)

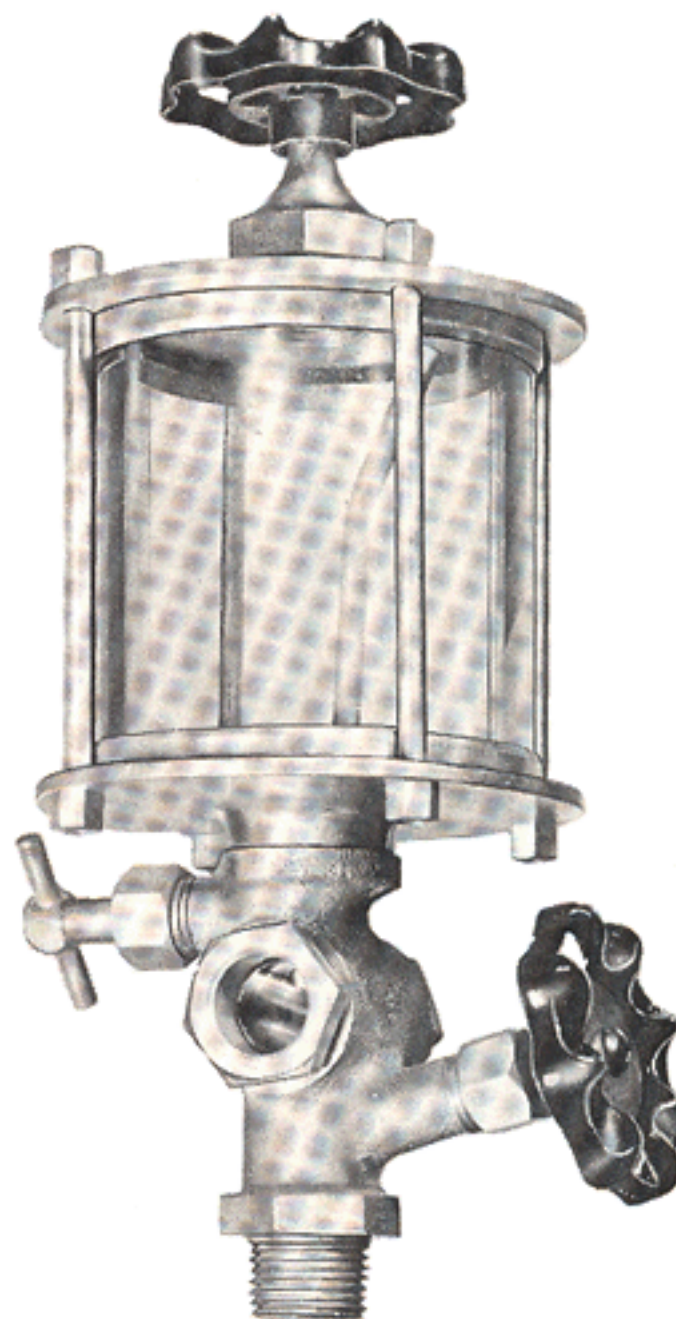


**Fig. 42**

Size	No. 0	No. 2	No. 4	No. 5
Diameter of Oil Chamber, inches	1 1/2	2	2 1/2	3
Capacity, ounces	1	1/8 Pt.	1/3 Pt.	1/2 Pt.
Shank Pipe Thread, inches	3/8	3/8	1/2	1/2

## "Wolverine" Sight Feed Lubricator

Glass Body, Cast Brass Trimmings  
For Gas Engines, Air Compressors, Glass Bottle Machines, Etc.



**Fig. 60**

Size	No. 3	No. 4	No. 5	No. 6	No. 7
Outside Diameter of Glass, inches	2 1/4	2 1/2	3	3 1/2	3 1/2
Height of Glass, inches	2 1/8	2 3/8	3	4	8
Capacity, ounces	4	5	10	Pint	Quart
Shank Pipe Thread, inches	3/8	3/8	1/2	1/2	1/2



**“Multiplex” Sight Feed Lubricator**

with Solenoid-Operated Valve for Automatic Lubrication of Bearings and Journals



**3 Feed**

**Model 377**

Made with One Feed to Fourteen Feeds and with Four Sizes Reservoirs

The solenoid-operated valves are available for 110, 220, 440 or 550 volts, 25, 30, 40, 50 and 60 cycles and 6, 12, 24, 110, and 220 D.C., and many other voltages.

Suitable for Class “A” application.  
Also available with Class “D” explosion proof coil.

*Very important. In ordering, always specify voltages and frequencies on which the lubricator is to operate.*

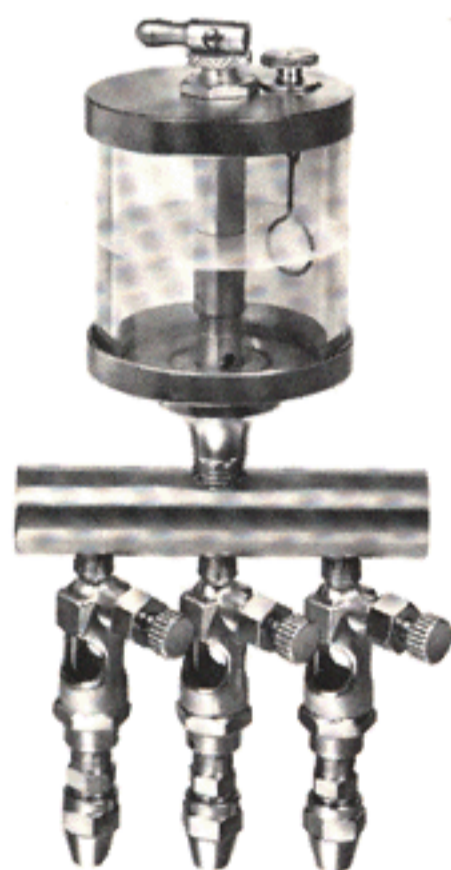
Oil pipe connections are for 1/4" O.D. tubing unless otherwise specified.

Sizes	No. 6	No. 7	No. 8	No. 9
Capacity	Pint	Quart	1/2 Gallon	Gallon
Outside diameter of glass, inches	3 1/2	4 1/4	5 1/2	8 1/4
Height of glass, inches	4	5	7	5

Available in Glass or Plastic Sights  
#9 Plastic, Steel or Aluminum Only

**“Plural” Sight Feed Oiler**

**Glass Body, Cast Brass Trimmings**  
Made with One Feed to Fourteen Feeds and with Six Sizes Reservoirs  
For Bearings and Journals  
Standard Equipment on the Highest Grade of Machine  
Tools, Engines, Printing Presses, Etc.



**3 Feed**

**Fig. 277 (Patented)**

Our “Plural” Oilers are made with one to fourteen feeds, and in 1/3 Pint, 1/2 Pint, Pint, Quart, 1/2 Gallon and Gallon sizes. Each one has a horizontal support stud which is cast in one piece with the upper sight feed arm, and this stud is provided with a lock nut to hold it firmly to the bracket or other support. Each feed has its own sight glass and regulating screw by means of which each feed may be independently adjusted. The snap lever on top of the oil reservoir starts or stops the flow of oil to all the feeds at once without in any way disturbing the feed adjustments. The oil pipe connections are arranged for 1/4" O.D. brass tubing unless otherwise specified.

All parts are made from brass and the construction throughout is strong and substantial. There are no moving working parts to wear and cause trouble, and with reasonable care this device will outlast the machine it lubricates.

At a slight additional charge our “Plural” Oilers can be provided with equalizing tube within the oil reservoir to enable these oilers to deliver the oil at moderate pressures.

Sizes	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9
Capacity	1/3 Pint	1/2 Pint	Pint	Quart	1/2 Gal.	Gallon
Outside Diameter of Glass, inches	2 1/2	3	3 1/2	4 1/4	5 1/2	8 1/4
Height of Glass, inches	2 3/8	3	4	5	7	5

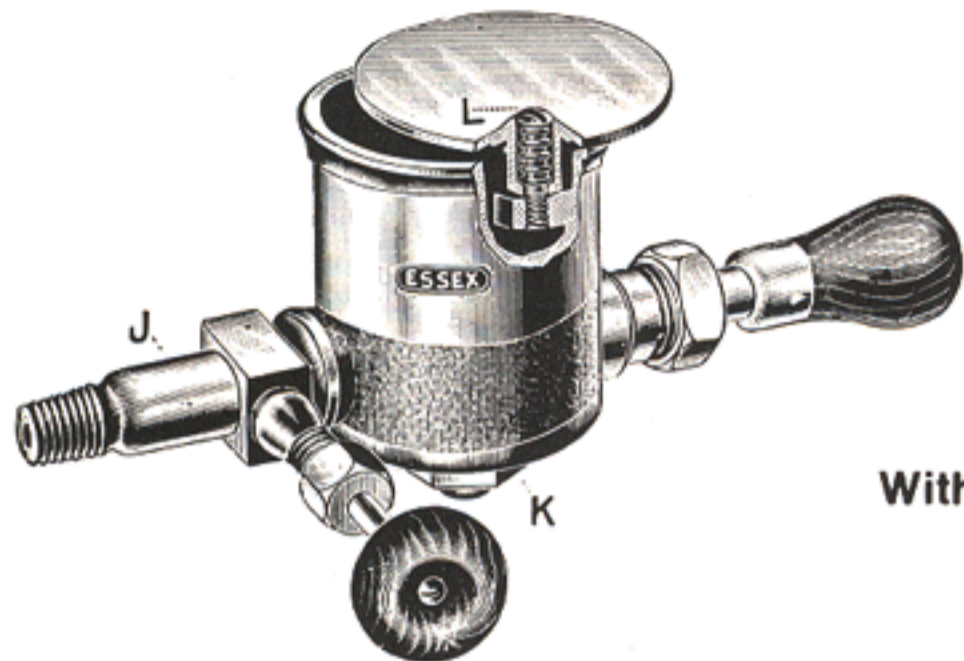
Available in Glass or Plastic Sights  
#9 Plastic, Steel or Aluminum Only





## Improved All Brass Hand Oil Pump

For Steam Engine Cylinders  
With Reversible Shank

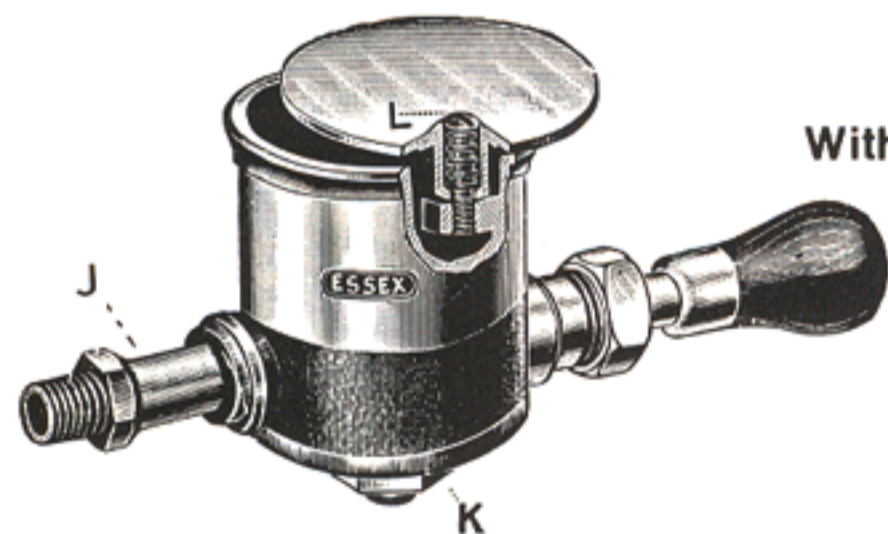


**Fig. 305**  
With Valve in Shank

(Showing Reversible Shank in Horizontal Position)

Years of experience in manufacturing this type of oil pump has brought to our notice that there is a great deal of time and labor wasted in filling, owing to the screw cover. We have therefore designed this oil pump with a swing cover, held in place by a heavy spring and operated as shown in cut above—opened for filling. This method dispenses with burnt fingers and lost covers.

These pumps have reversible shank so they can be connected either horizontally or vertically, as may be desired. To change connection, transpose plug (K) and shank (J), which are interchangeable.



**Fig. X305**  
Without Valve in Shank

(Showing Reversible Shank in Horizontal Position)

The only essential difference between our Fig. X305 Improved All Brass Hand Oil Pump and the Fig. 305 Hand Oil Pump is that the Fig. X305 is made without the valve in shank. This provides a pump which is shorter over all, a feature which is desirable where the pump must be used within a limited space as in marine engine rooms, etc.

Number	Capacity	Size of Bowl
1	4½ oz.	2¾ x 2¾

All Shanks are 3/8"

## Essex Oil Syringe

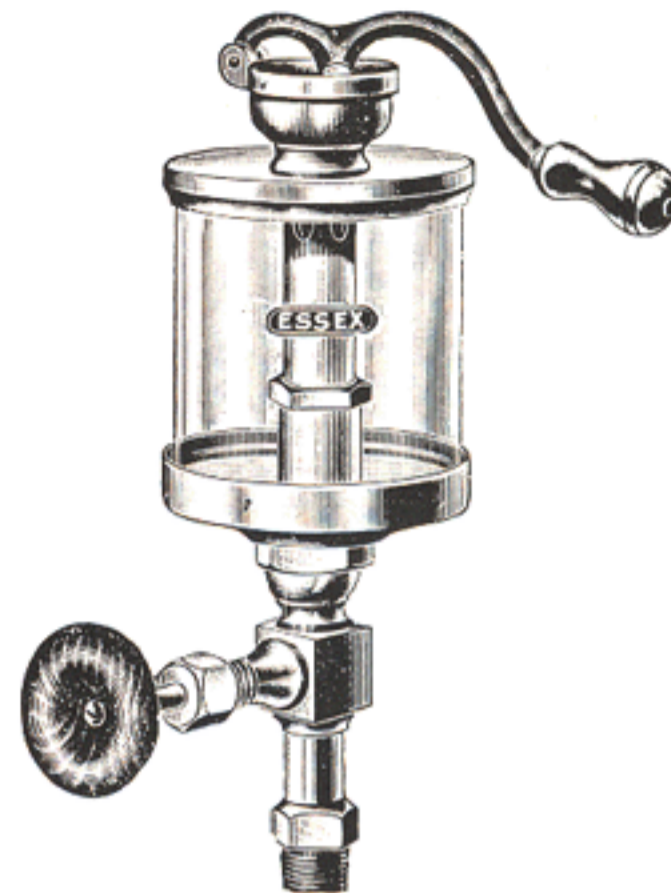


**Fig. 205**  
"O" Ring Plunger

For oiling bearings or removing oil from base of engines, etc. Made of brass, satin finished. Barrel 1¼" x 7".

## Glass Body Hand Oil Pump

For Steam Engine  
Cylinders



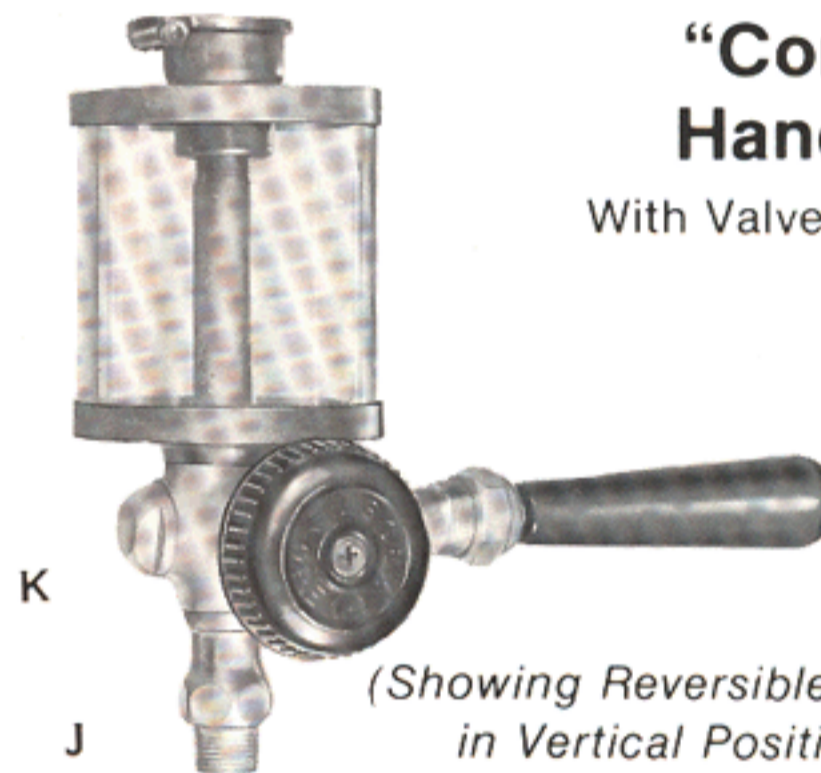
**Fig. 303**

The Essex Glass Body Oil Pump lever pattern is simple in construction and easy to fill and operate. It is used as an auxiliary to sight feed lubricators on stationary and marine engines, ice machines, etc.

Size	No. 5	No. 6	No. 7
Outside Diameter of Glass, inches	3	3½	4¼
Height of Glass, inches	3	4	5
Capacity	½ Pint	1 Pint	1 Quart
Shank Pipe Thread, inch	3/8	½	½

## "Combination" Hand Oil Pump

With Valve and Reversible Shank,  
Glass Body



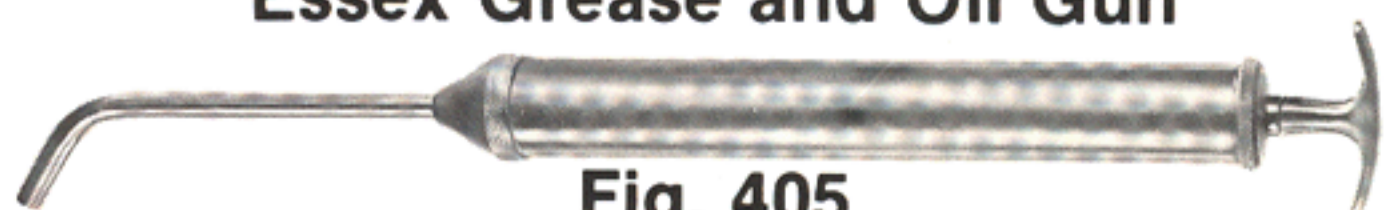
Patented  
**Fig. 301**

(Showing Reversible Shank  
in Vertical Position)

This style of Oil Pump is adapted for the same purpose as our lever pattern, and is guaranteed to work under all conditions. It is easy to attach, fill and operate. It can be made to attach either vertically or horizontally by transposing plug (K) and shank (J), which are interchangeable. This improvement makes this type of Oil Pump convenient for either steam pipe or steam chest connection. As shown in cut, it is arranged for vertical connection.

Size	No. 5	No. 6	No. 7
Outside Diameter of Glass, inches	3	3½	4¼
Height of Glass, inches	3	4	5
Capacity	½ Pint	1 Pint	1 Quart
Shank Pipe Thread, inch	3/8	½	½

## Essex Grease and Oil Gun



**Fig. 405**  
"O" Ring Plunger

All brass; self-filling, for forcing grease or oil into planetary transmissions, rear axle bevel gears, etc. Made of brass, satin finished. Barrel 1½" x 12".

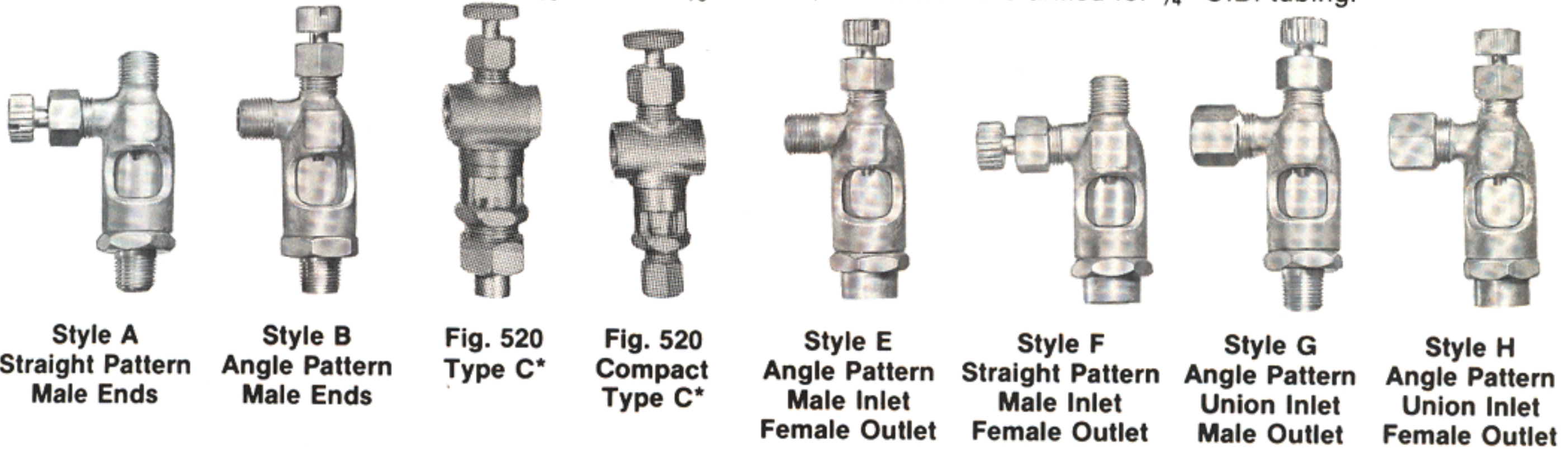


**Essex Compact Type Sight Feed Valves**

With Needle Valve Feed Stems

**Fig. 520**

Threaded connections are 1/8" male or 1/8" female, and unions are drilled for 1/4" O.D. tubing.



**Style A**  
Straight Pattern  
Male Ends

**Style B**  
Angle Pattern  
Male Ends

**Fig. 520**  
Type C\*

**Fig. 520**  
Compact  
Type C\*

**Style E**  
Angle Pattern  
Male Inlet  
Female Outlet

**Style F**  
Straight Pattern  
Male Inlet  
Female Outlet

**Style G**  
Angle Pattern  
Union Inlet  
Male Outlet

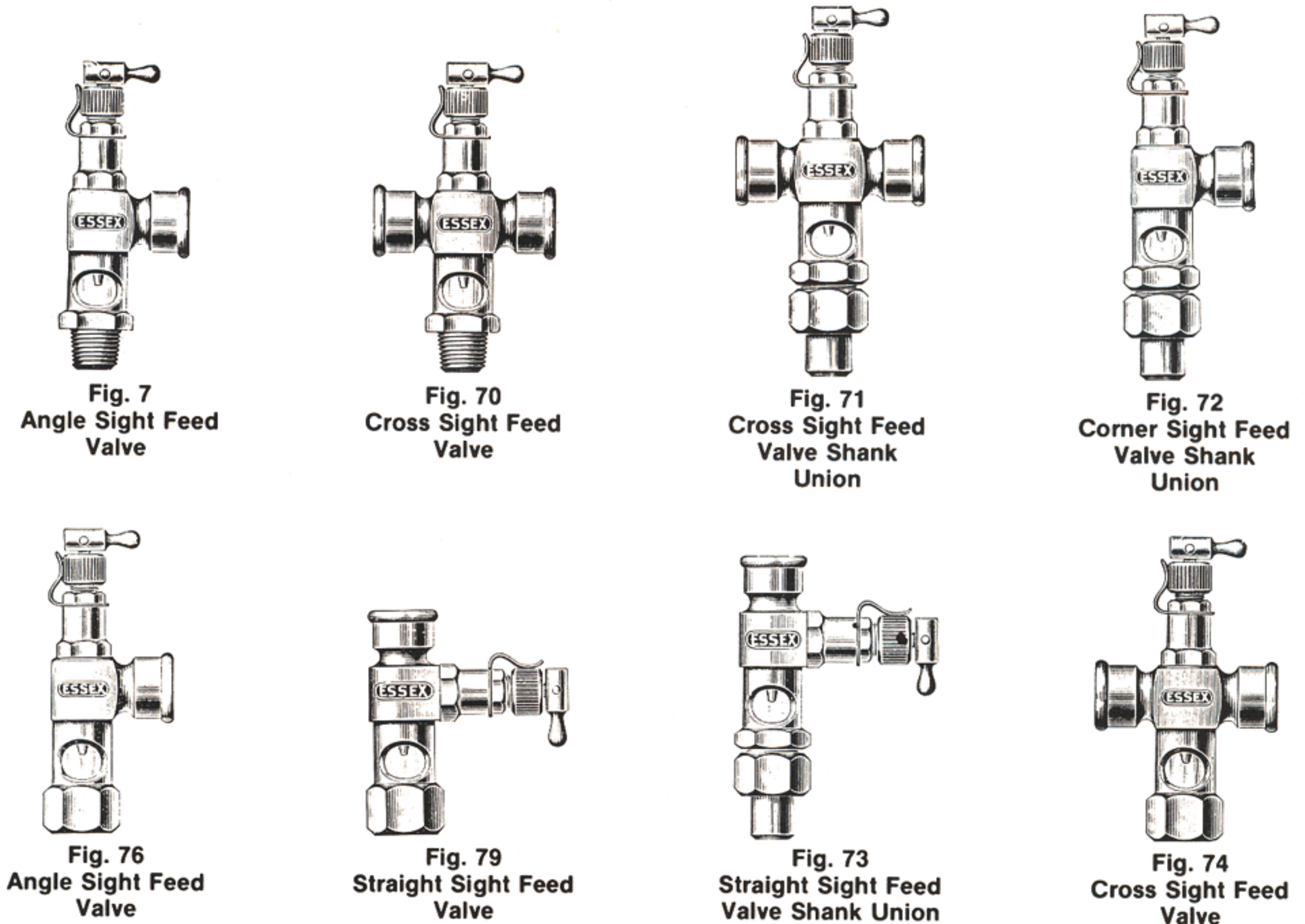
**Style H**  
Angle Pattern  
Union Inlet  
Female Outlet

\*Type "C" Outlet 1/8" N.P.T. Female, 1/4" N.P.T. Male Union available upon request. 1/4" N.P.T. Inlet.  
Compact Type "C" Outlet 1/4" Compression Tube Fitting. 1/4" N.P.T. Inlet.

Both are furnished for gravity service without ball-checks unless your order specifies "with Ball-Check" or "For Pressure".

**Essex Snap Lever Sight Feed Valves**

For Piping Oiling Systems for Engines and Machinery



**Fig. 7**  
Angle Sight Feed  
Valve

**Fig. 70**  
Cross Sight Feed  
Valve

**Fig. 71**  
Cross Sight Feed  
Valve Shank  
Union

**Fig. 72**  
Corner Sight Feed  
Valve Shank  
Union

**Fig. 76**  
Angle Sight Feed  
Valve

**Fig. 79**  
Straight Sight Feed  
Valve

**Fig. 73**  
Straight Sight Feed  
Valve Shank  
Union

**Fig. 74**  
Cross Sight Feed  
Valve

All in 1/8", 1/4", 3/8"





## Self-Cleaning Water Gauges

Polished Round Body, Composition Wheels  
Tested for Pressures to 200 Pounds



**Nos. 0—3—7<sup>1</sup>/<sub>2</sub>  
Two Guards**



**Nos. 5—7  
Four Guards**

Number	Pipe Thread	Center Distance	Glass Size	Rod Length
0	3/8	11 1/2	5/8 x 10	12
3	1/2	13 1/2	5/8 x 12	14
7 1/2	3/4	17 1/2	3/4 x 16	18
5	1/2	13 1/2	5/8 x 12	12 3/4
7	3/4	18	3/4 x 16	17

All Units Have Drain Valve in Lower Body with 1/4" Dia. Opening to Meet A.S.M.E. Requirements.

Can be furnished with or without BALL CHECK. Furnished without check unless otherwise specified.



## Rough Body Metal Wheels

Number	Pipe Thread	Center Distance	Glass Size	Rod Length
000	3/8	11 1/2	5/8 x 10	12
000L	3/8	11 1/2	5/8 x 10	12
1	1/2	13 1/2	5/8 x 12	14
1 1/2	3/4	17 1/2	3/4 x 16	18
1L	1/2	13 1/2	5/8 x 12	14



Tested for Pressures  
to 200 Pounds  
**No. 000, 1, and 1 1/2**

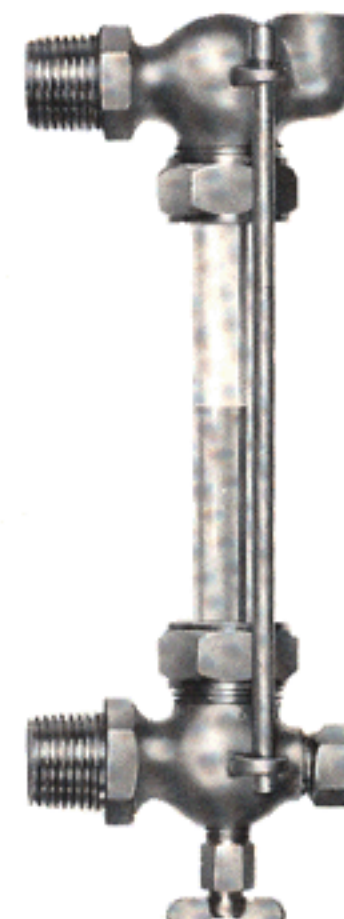
Tested for Pressure to 100#  
**No. 000L and 1L**  
**No. 29**  
Tapped 1/4" I.P.  
Thread for Pressure  
Gauge

## Rough Body Tested for 100#



Expansion Tank Type  
**No. 00000, 0000, 00**

Number	Pipe Thread	Center Distance	Glass Size	Rod Length
00000	3/8	11 1/2	5/8 x 10	12
0000	1/2	13 1/2	5/8 x 12	14
00	3/4	17 1/2	3/4 x 16	18
28	1/2	13 1/2	5/8 x 12	14
29	1/2	13 1/2	5/8 x 12	14
32	1/2	13 1/2	5/8 x 12	14



**No. 28**



**Chain Lever Water Gauge**

Quick Opening

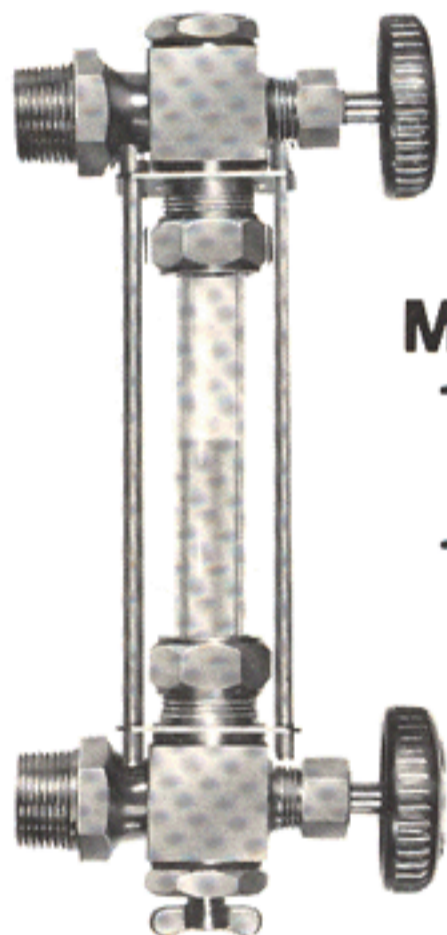


**No. 53 and  
No. 54**

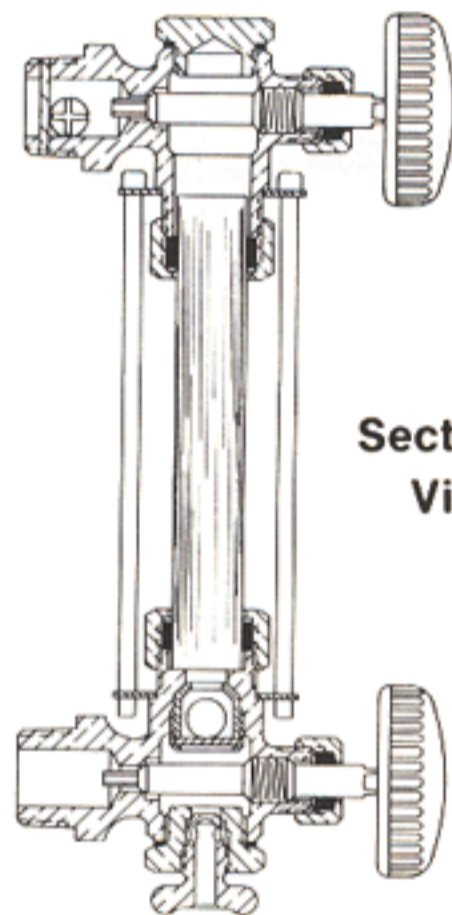
**Square Body      Satin Finish      Four Guards**  
Tested for Pressures to 400 Pounds w/Hi-Pressure Glass

Number	Pipe Thread	Center Distance	Glass Size	Rod Length
53	1/2	14	3/4 x 12	13
54	3/4	18	3/4 x 16	17

**“Michigan” Safety Automatic Water Gauge**



**Models  
19G4  
and  
19G5**

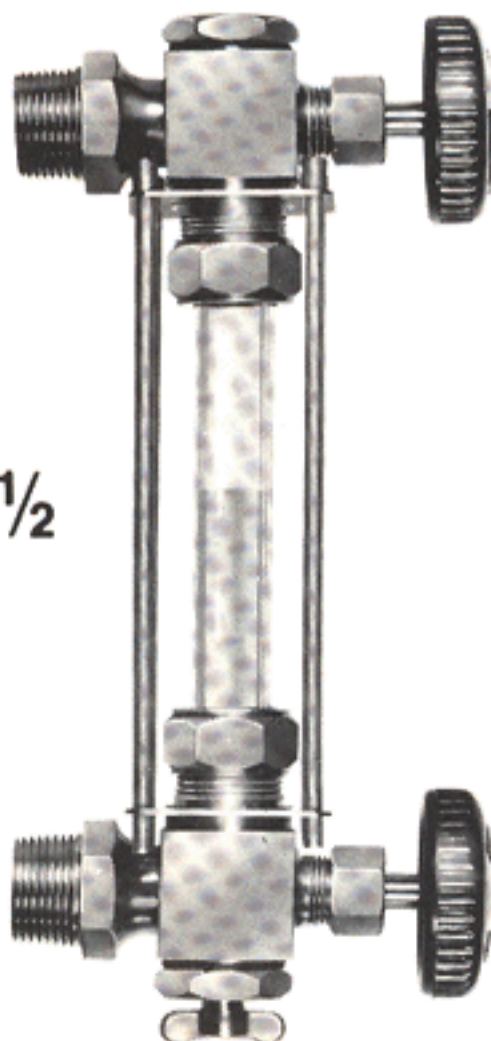


Sectional  
View

**Square Polished Body Four Guards**  
Tested for Pressures to 400 Pounds w/Hi-Pressure Glass

Number	Pipe Thread	Center Distance	Glass Size	Rod Length
19G4	1/2	13 1/2	5/8 x 12	12 3/4
19G5	3/4	18	3/4 x 16	17

**Self-Cleaning Water Gauges**



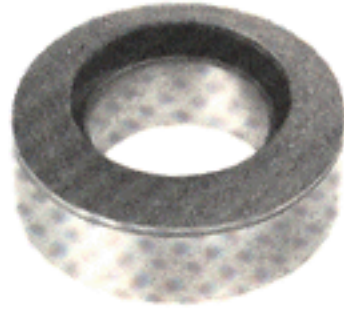
**Square Polished Body, Composition Wheels, Four Guards**  
Tested for Pressures to 400 Pounds w/Hi-Pressure Glass

Number	Pipe Thread	Center Distance	Glass Size	Rod Length
9	1/2	13 1/2	5/8 x 12	12 3/4
9 1/2	3/4	18	3/4 x 16	17

**No. 9 and 9 1/2**

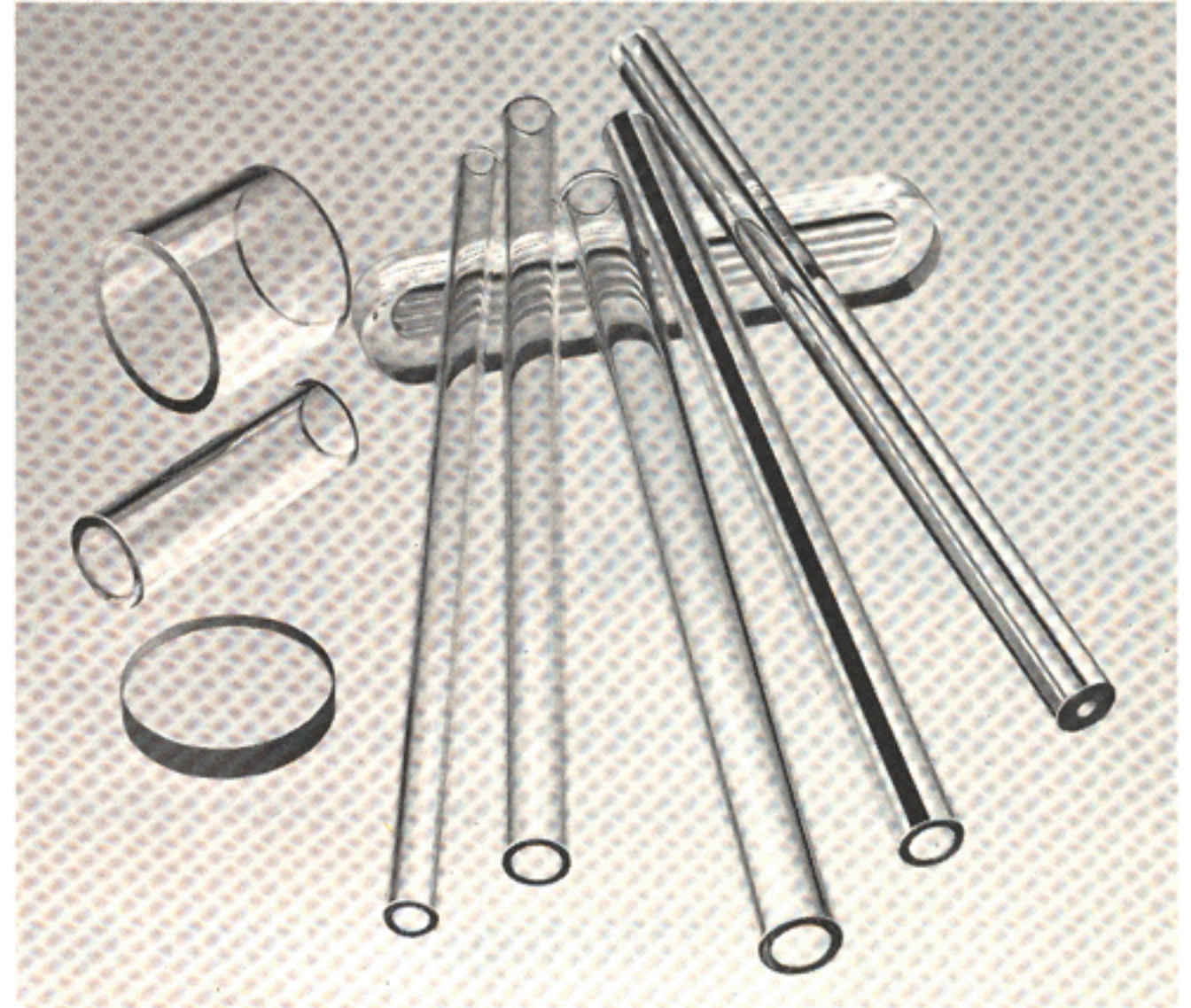


## Marvel Self-Sealing Washers



Washer No.	Hole I.D., In.	Outside Diam., In.	Height or Thickness, In.
30	3/8	13/16	1/4
1	1/2	13/16	9/32
21	1/2	7/8	3/8
2	1/2	7/8	1/2
29	1/2	1	5/16
28	1/2	1	3/8
34	1/2	1 7/16	3/8
19	9/16	13/16	9/32
12	9/16	27/32	19/32
18	9/16	1 3/32	1/2
3	5/8	7/8	9/32
52	5/8	7/8	3/8
13	5/8	15/16	9/32
9	5/8	15/16	9/16
4	5/8	1	9/32
25	5/8	1	15/32
5	5/8	1 1/8	3/8
37	5/8	1 1/4	1/2
35	5/8	1 5/16	13/32
50	21/32	1 1/4	1/4
20	11/16	1	9/32
51	11/16	1 1/8	3/8
42	11/16	1 3/16	7/16
44	11/16	1 3/8	3/8
56	11/16	1 7/16	13/32
31	3/4	1	3/8
43	3/4	1	3/4
6	3/4	1 1/16	9/32
15	3/4	1 1/16	1/2
47	3/4	1 1/16	3/4
24	3/4	1 3/32	13/32
14	3/4	1 1/8	3/8
39	3/4	1 1/8	7/16
33	3/4	1 1/8	1/2
17	3/4	1 1/8	5/8
54	3/4	1 1/8	7/8
11	3/4	1 3/16	13/32
22	3/4	1 1/4	1/4
7	3/4	1 1/4	13/32
53	3/4	1 1/4	1/2
23	3/4	1 1/4	3/4
8	3/4	1 5/16	13/32
16	3/4	1 5/16	5/8
41	3/4	1 3/8	3/8
32	3/4	1 3/8	1/4
10	3/4	1 7/16	13/32
46	3/4	1 5/8	1/2
45	3/4	1 15/16	3/8
27	7/8	1 3/8	13/32
55	7/8	1 31/64	7/8
40	31/32	1 3/4	3/8
48	31/32	1 3/4	7/16
26	1	1 5/8	1/2
38	1	1 1/2	1
36	1 1/4	1 7/8	1 5/16
49	1 7/8	2 1/4	3/4

## Glass



For Boiler Water Gauges and Liquid Level Gauges

**CORNING® Brand Standard  
Pyrex® Brand High Pressure  
Pyrex® Brand Red Line  
Pyrex® Brand Heavy Wall  
Lubricator Glasses  
Oil Cup Glasses  
Macbath® Brand Gauge Glasses**

FIG. 100 GLASS CYLINDERS

Number	000	00	0	1	1 1/2	2	3	4	5	6	7	8	9
Outside Diam. of Glass, in.	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3	3 1/2	4 1/4	5 1/2	8 1/4
Height of Glass, in.	7/8	1	1 1/8	1 3/8	1 5/8	1 7/8	2 1/8	2 3/8	3	4	5	7	5

FIG. 101 GASKETS FOR OIL CUP GLASS  
Neoprene-Cork Composition

Number	000	00	0	1	1 1/2	2	3	4	5	6	7	8	9
Outside Diam. in.	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3	3 1/2	4 1/4	5 1/2	8 3/8
Inside Diam. in.	3/4	7/8	1	1 1/8	1 1/2	1 5/8	1 3/4	2	2 1/2	3	3 1/2	4 1/4	7 1/2

## POLYCARBONATE OR PLASTIC PLEXIGLAS TUBING

ALL SIZES LENGTHS CUT TO SPECIFICATIONS

We cannot guarantee or be liable for Glass Breaking, clouding up or against eating away or any other cause, which is beyond our control.



**Direct Reading — Liquid Level Indicators**

THESE UNITS ARE MANUFACTURED TO CONFORM TO MILITARY SPECIFICATION MIL-I-20037-A, AND ARE CLASSIFIED AS FOLLOWS:

- TYPE 1 — NON-AUTOMATIC:** No Ball Check, Suitable for Maximum Working Pressure to 100 P.S.I.
- TYPE 2 — AUTOMATIC:** Unit Has Automatic Ball Check, Suitable for Maximum Working Pressure of 300 P.S.I.
- CLASS A — GENERAL:** Guard Rod Type Protection for Gauge Glass
- CLASS B — SHIELDED:** Tubular Brass Shield Around Gauge Glass (Price upon Request)

"ESSEX" Units are Available to Fit all Requirements. In Ordering, State Size, Type, & Class Required.



Upon Request, Units can be Supplied with A.S.A. Flanges, 150# or 300# in Either 1/2" or 3/4" Size. Flanges will be "Silver Soldered" to Bodies.

**CONSTRUCTION**

- BODIES — Cast Bronze per Mil-B-16542
- TRIM — "Naval Brass" per QQ-B-637
- GLASS — "Pyrex" Brand Red Line, Reflex Tubular per Mil-G-2695
- RODS — 4-1/4" Dia. Solid Brass
- Drain Valve Connection—3/8" Female Pipe

This unit with "Polycarbonate Tube" meets "High Shock" requirements of Mil-S-901C and the "Vibration" requirements of Mil-Std-167 for Type 1 vibration up to 25 cps (Certified Test Reports available upon request).

Number	Pipe Thd.	Std. Center Distance*	Glass Size	Rod Lg't
53-A	1/2"	24"	3/4" x 22	23"
54-A	3/4"	24"	3/4" x 22	23"

\*OTHER LENGTHS SUPPLIED UPON REQUEST

"NAVY" APPROVED  
 U.S.C.G. APPROVED  
 EACH UNIT INDIVIDUALLY TESTED



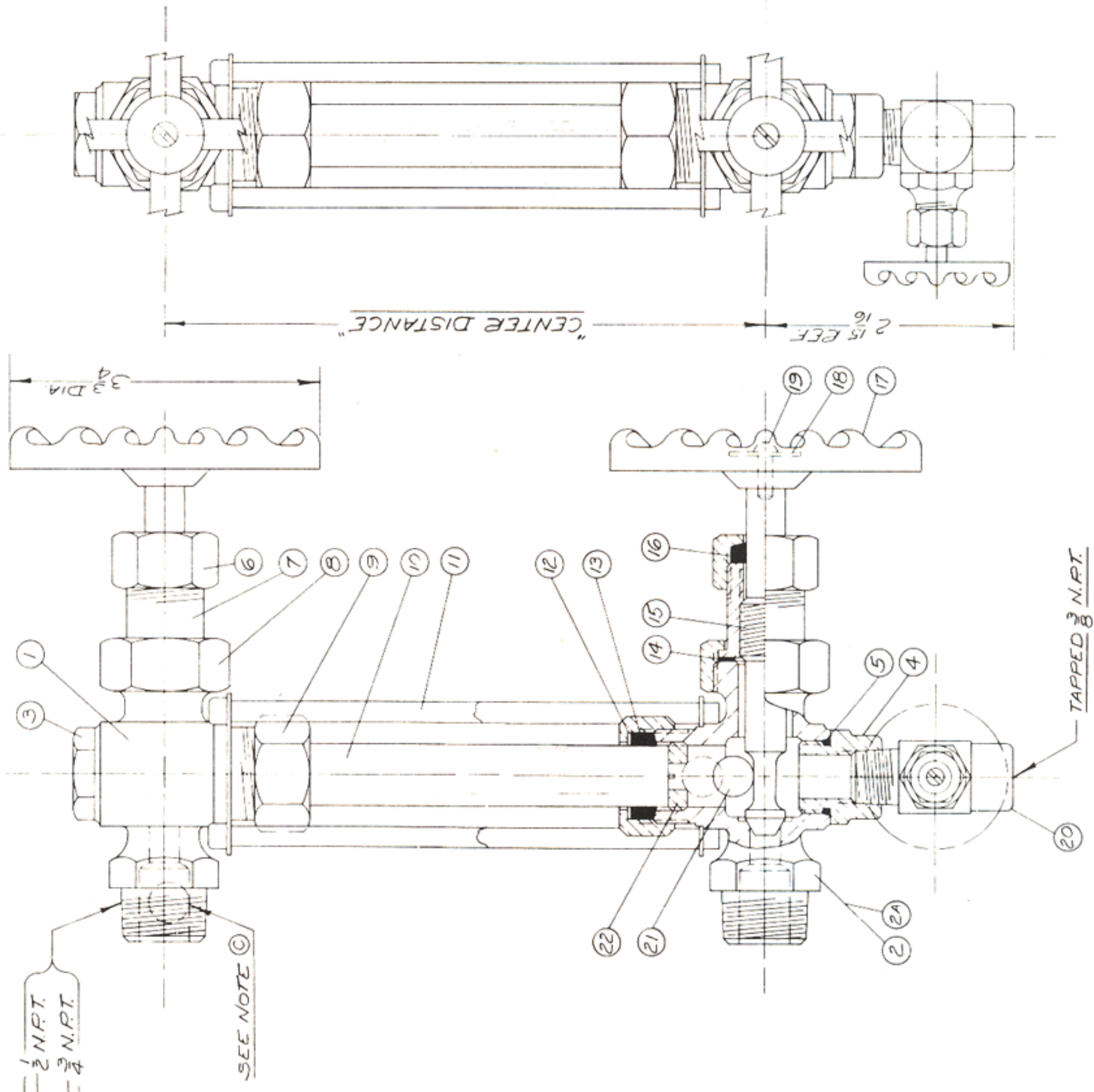
Nº 53-A  
Nº 54-A

STOCK LIST

DET	PART NAME	PART #	REQ'D	MATERIAL
1	BODY, UPPER	BO-250A	1	BRONZE ASTM-B-61
2	BODY, LOWER	BO-250A	1	"
2A	"	BO-250B	1	"
1	BODY, UPPER	BO-251A	1	"
2	BODY, LOWER	BO-251A	1	"
2A	"	BO-251B	1	"
3	PLUG, UPPER	PG-54-U	1	NAVAL BRASS-ASTM-B-21B
4	PLUG, LOWER	PG-54-L	1	"
5	"O" RING	R-54	2	"VITON"
6	STEM PK. NUT	NT-219	2	NAVAL BRASS, ASTM-B-21B
7	HUB NUT	HU-54	2	"
8	HUB NUT	NT-54	2	"
9	GLASS PK. NUT	NT-223	2	"
10	3/4 O.D. GLASS x 7/64 WALL		1	"PYREX" - MIL-G-2695
11	GUARD ROD - 1/4" DIA.		4	BRASS-ASTM-B-16
12	FIBER WASHER	WA-52	2	HARD FIBER
13	FIBER WASHER	WA-53	2	"VITON"
14	HUB WASHER	WA-54	2	ASBES.-NEOPRENE
15	STEM	ST-226-A	2	NAVAL BRASS-ASTM-B-21B
16	PK. RING	R-53	2	MOLDED GRAPH & ASB.
17	HANDLE	H-53	2	ALUMINUM
18	WASHER	WA-57	2	BRASS - COMM'L.
19	SCREW	EIL-008	2	"
20	DRAIN VALVE	DC-53	1	NAVAL BRASS-ASTM-B-21B
21	BALL	B-54	1	STAINLESS STEEL-18-8
22	RETAINER	RE-54	1	NAVAL BRASS-ASTM-B-21B

SEE NOTE A  
#53-A - 1/2"  
#54-A - 3/4"

SEE NOTE B



#53-A - 1/2 N.P.T.  
#54-A - 3/4 N.P.T.

SEE NOTE C

TAPPED 3/8 N.P.T.

A LOWER BODY #BO-250A (1/2") OR #BO-251A (3/4"), USED ON "TYPE-I" UNITS (NON-AUTOMATIC).  
LOWER BODY #BO-250B (1/2") OR #BO-251B (3/4") USED "TYPE-II" UNITS (AUTOMATIC).

B THESE PARTS USED ON TYPE II UNIT ONLY.  
C ALL UNITS SUPPLIED TO/ FOR U.S. COAST GUARD SHALL BE TYPE II UNITS & SHALL ALSO HAVE A BALL CHECK IN THE UPPER BODY.

This unit with "Polycarbonate Tube" meets "High Shock" requirements of Mil-S-901C. Ref. Lockheed Electronics Co. Inc. Test Report #3738-3378 Dated 12-11-74.

This unit with "Polycarbonate Tube" meets the "Vibration" requirements of Mil-Std-167 for Type 1 vibrations up to 25 cps. Ref. Lockheed Electronics Co. Inc. Test Report #3738-3378 Dated 12-11-74.

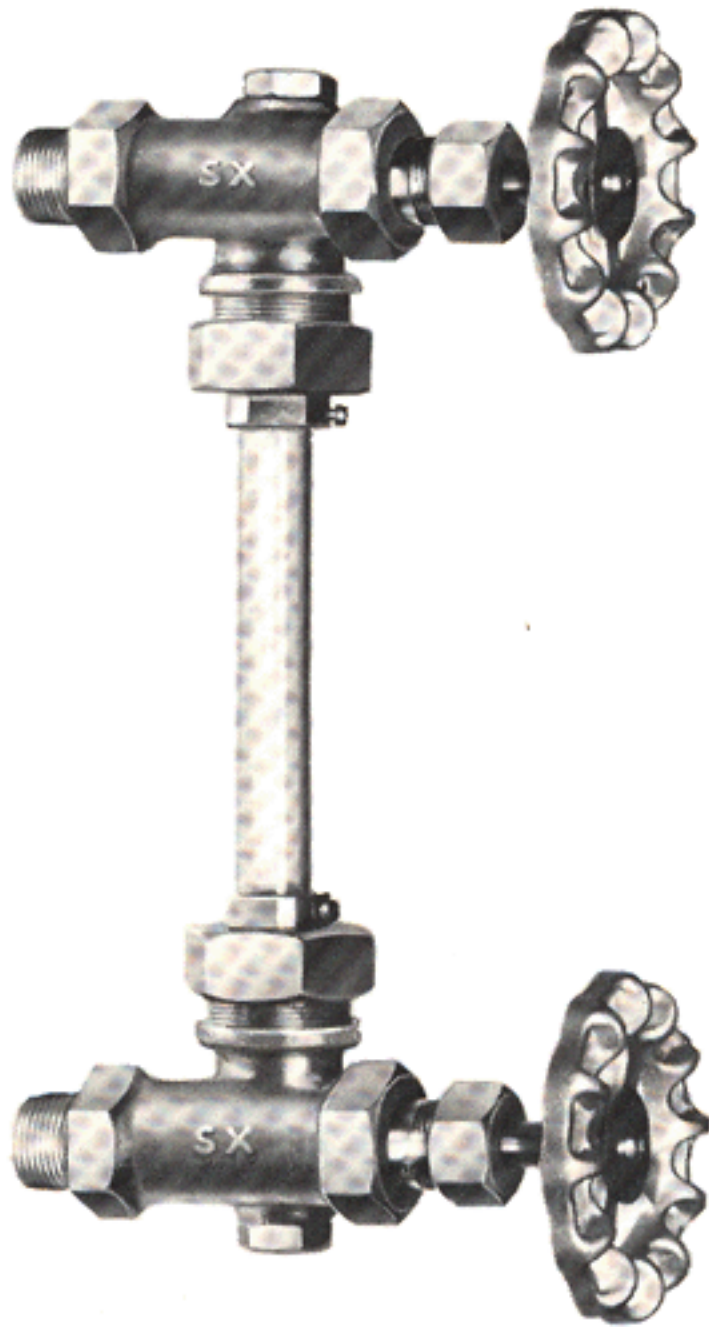
TYPE-I UNITS ARE NON-AUTOMATIC (WITHOUT BALL CHECK)  
TYPE-II UNITS ARE AUTOMATIC (BALL CHECK IN LOWER BODY)  
GLASS TUBE LGT. = "CENTER DISTANCE" MINUS 2 IN.  
GUARDED END LGT. = "CENTER DISTANCE" MINUS 1 IN.

ESSEX BRASS CORPORATION  
DETROIT, MICHIGAN  
"NAVY" WATER GAUGE  
MIL-I-20037 TYPE-I&II  
#53-A - 1/2" NPT  
#54-A - 3/4" NPT



Direct Reading — Liquid Level Indicator

Model 104-P



Automatic Type — Quick Closing

Each unit individually tested hydrostatically at 450 p.s.i.

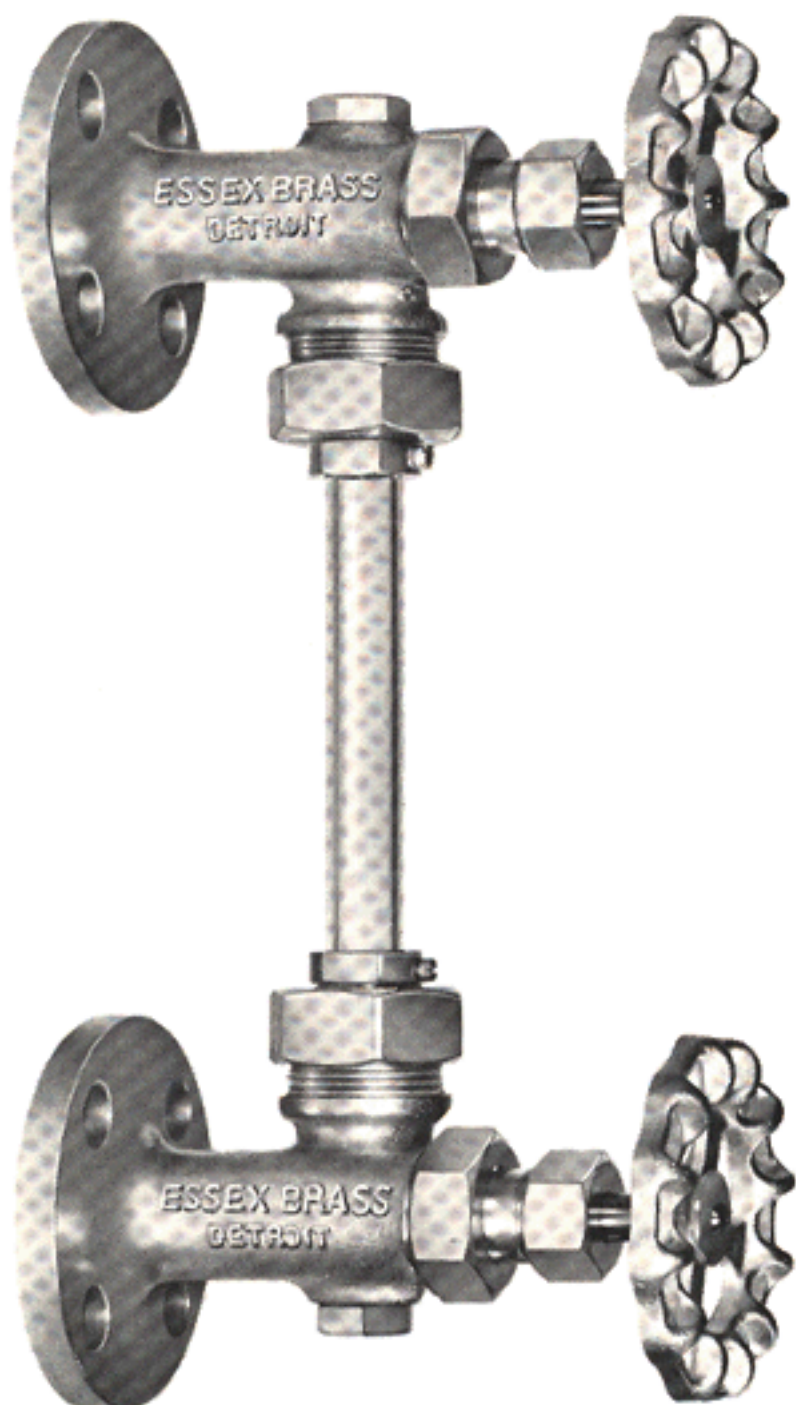
Unit is of bronze construction with “monel” trim, “viton” seals, and “polycarbonate” tube.

Unless otherwise specified, unit will be shipped complete with “polycarbonate” tube for 24” centers.

Upon request, this unit can also be supplied with “Pyrex” high pressure gauge glass with “Class B” protective shield.

THIS UNIT MEETS THE “HIGH SHOCK” REQUIREMENTS OF MIL-S-901C, AND THE “VIBRATION” REQUIREMENTS OF MIL-STD.-167, FOR TYPE 1 VIBRATION UP TO 25 C.P.S. (CERTIFIED TEST REPORTS AVAILABLE UPON REQUEST).

Model 104-A



Unit per Mil-I-20037-A (Shock-Proof)

“Navy” approved

Automatic Type — Quick Closing

Each unit individually tested hydrostatically at 450 p.s.i.

Unit is of bronze construction with “monel” trim, “viton” seals, and “polycarbonate” tube.

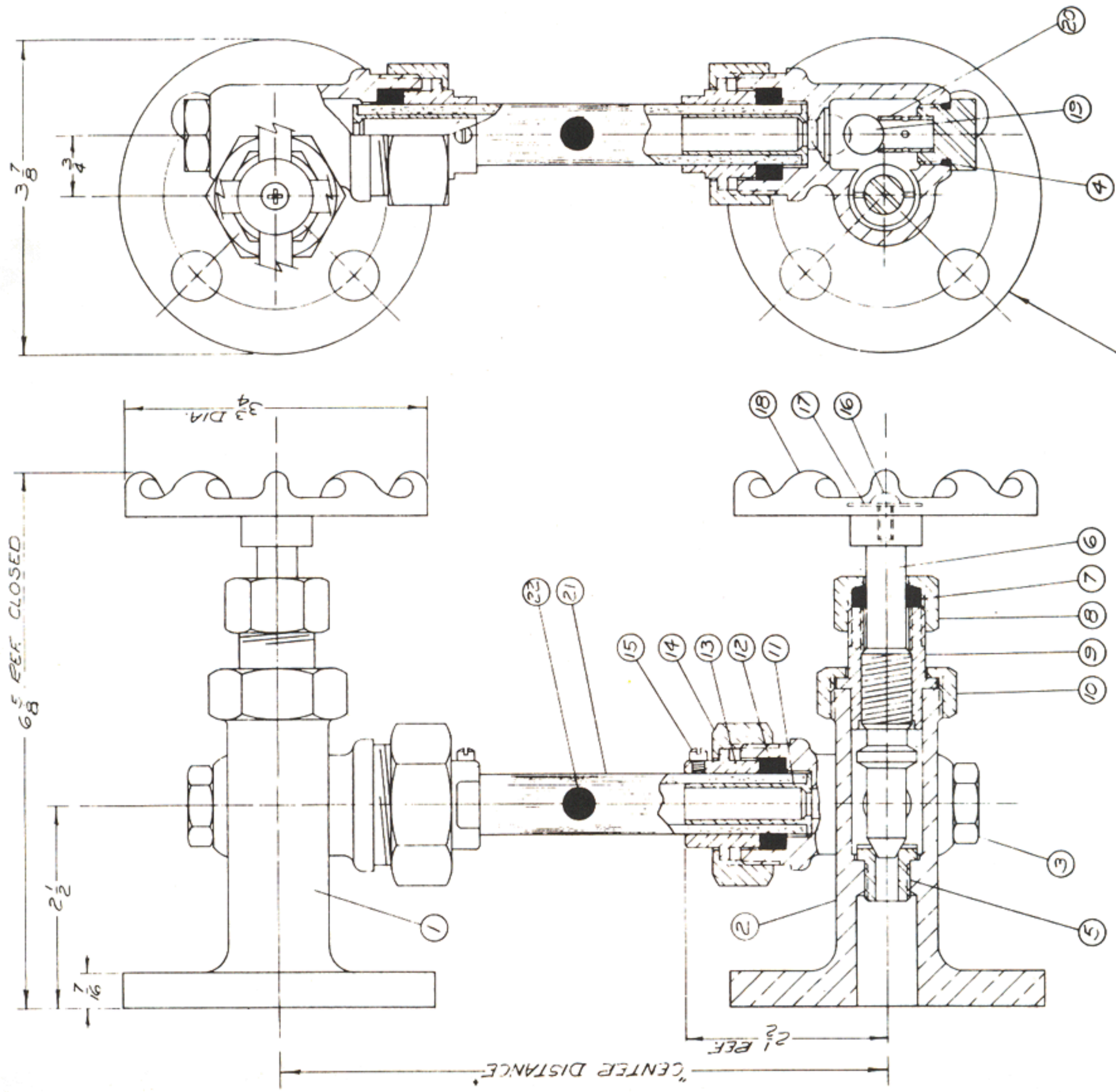
Flanges are integral to bodies and are per A.S.A. standards for 3/4-150# flanges.

Unless otherwise specified, unit will be shipped complete with “polycarbonate” tube for 24” centers.

Upon request, this unit can also be supplied with “Pyrex” high pressure gauge glass with “Class B” protective shield.



MODEL-104-A  
FLANGED-150#



DET	PART	REQ'D	MATERIAL	SPEC.	CODE
1	BODY UPPER	1	CAST BRONZE	A.S.T.M. - B-61	A
2	BODY LOWER	1	"	"	A
3	PLUG	2	MONEL	QQ-N-281	A
4	"O" RING	2	VITON	MIL-G-23652-1	C
5	SEAT	2	MONEL	QQ-N-281	A
6	STEM	2	"	"	A
7	STEM PACKING	2	MOLDED GRAPH. & ASB	CRANE - 172-D	C
8	STEM PK. NUT	2	PHOS. BRONZE	A.S.T.M. - B-139, B	A
9	HUB	2	"	"	A
10	HUB NUT	2	"	"	A
11	TUBE SUPPORT	2	"	"	A
12	GROMMET	2	VITON	GARLOCK-9663	C
13	GLAND	2	PHOS. BRONZE	A.S.T.M. - B-139, B	A
14	GLAND NUT	2	"	"	A
15	LOCK SCREW	2	BRASS	COMM'L.	C
16	HANDLE SCREW	2	"	"	C
17	HANDLE WASHER	2	"	"	C
18	HANDLE	2	CAST BRONZE	A.S.T.M. - B-61	C
19	BALL CHECK	1	MONEL	QQ-N-281	C
20	BALL RETAINER	1	BRASS	A.S.T.M. - B-135, 3	B
21	TUBE 3/4 D. x 1/4 WALL	1	"POLYCARBONATE"	COMM'L.	C
22	FLOAT	1	"POLYPROPYLENE"	"	C

**CODE**

- A—ACTUAL CHEMICAL & PHYSICAL REPORTS
- B—CERTIFICATION OF COMPLIANCE ACCEPTABLE IF ACTUAL REPORTS ARE NOT AVAILABLE
- C—CERTIFICATION OR ACTUAL REPORTS NOT REQ'D. VISUALLY INSPECTED.

**NOTE**

THIS UNIT MEETS THE "HIGH SHOCK" REQUIREMENTS OF MIL-S-901C. REF—LOCKHEED ELECTRONICS CO. TEST REPORT #1868-4554, DATED 10-23-67.

THIS UNIT MEETS THE "VIBRATION" REQUIREMENTS OF MIL-STD-167 FOR TYPE-1 VIBRATION UP TO & INCLUDING 25 C.R.S. REF—LOCKHEED ELECTRONICS CO. TEST REPORT # 2134-3258, DATED 7-29-68.

EACH UNIT IS HYDROSTATICALLY TESTED AT 450 P.S.I. FOR NOT LESS THAN ONE MINUTE.

TUBE LGT. = "CENTER DISTANCE", MINUS 2 INCHES

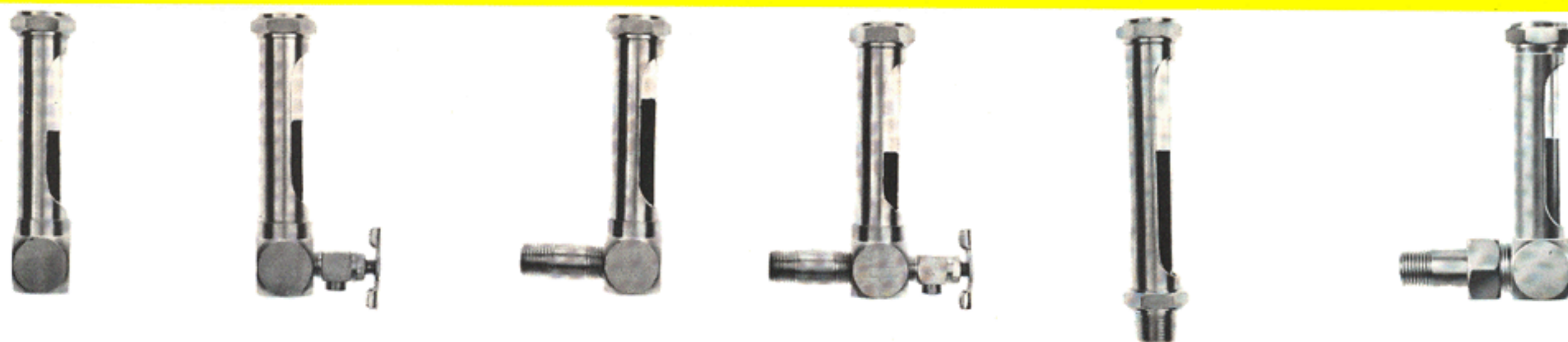
UNIT WT. (LESS TUBE) — — 9 LBS., TUBE WT. — .110 LBS./FT.

FLANGES ARE CAST INTEGRAL TO BODIES & ARE PER A.S.A. STD. 3. FOR 150# BRONZE FLANGES FLANGE FACES HAVE "PHONOGRAPHIC" FINISH PER MIL-F-20042C

ESSEX BRASS CORPORATION  
DETROIT, MICHIGAN

INDICATOR — LIQUID LEVEL  
MIL-I-20037 — SHOCK-PROOF  
MODEL 104-A — FLANGED-150#





**Fig. 522      Fig. 524      Fig. 526      Fig. 527      Fig. 530      Fig. 550 with union**

Our oil gauges are made in standard sizes as quoted in table below, but they can also be made in various combinations to meet special requirements. Special sizes made to your specifications.

**DIMENSIONS—FIG. 522, 524, 526, 527, & 530**

Size No.	0	1	2	3	4	5	6
Pipe Thread on Shank	1/8	1/8	1/4	1/4	1/4	3/8	1/2
*Length, Center Line of Glass to End of Shank	1 3/4	1 3/4	1 3/4	1 3/4	2 3/4	2 3/4	2 3/4
Height, Center Line of Shank to Top of Gauge	2 9/16	3 1/16	3 1/16	3 13/16	4 11/16	6 1/16	6 1/8
Fig. 530 Only—Height	2 9/16	3 1/8	3 3/8	3 7/8	4 7/8	6 3/16	6 1/4
Glass Length (Dia. is 5/8")	1 7/8	2 3/8	2 3/8	3 1/8	4 1/8	5 3/8	5 3/8

**DIMENSIONS—FIG. 550 ONLY**

Size No.	0	1	2	3	4	5	6
Pipe Thread on Shank	1/8	1/8	1/4	1/4	1/4	3/8	1/2
*Length, Center Line of Glass to End of Shank	2 1/8	2 1/8	2 1/8	2 1/8	2 1/8	2 3/4	3
Height, Center Line of Shank to Top of Gauge	2 5/16	2 13/16	2 13/16	3 9/16	4 9/16	5 7/8	5 15/16

\*Length applies only to those gauges which have shanks, viz: Figs. 526, and 527. Height and length are measured from center line of base to top of gauge and end of shank respectively.

**"Essex"  
Gear Case Oil Gauges**

The construction of the "Essex" Gear Case Oil Gauges is such that the sight glass may be removed for cleaning, replacement, or repacking.

The Fig. 540S is equipped with a reflector screen.

Both styles are available in the following sizes: 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2 & 2" pipe with Standard Glass or Pyrex Glass. Available in Brass Carbon Steel & Stainless Steel.



**Fig. 540**



**Fig. 540S**

**Essex Oil Gauges  
Without Shield**



**Fig. 202  
Plain**

Number	0	1	2	3
Size Shank Pipe Thread, inch	1/8	1/4	3/8	1/2
Height from Center of Square to Top of Gauge, in.	2 1/2	3 1/8	3 3/4	4 7/8
Length of Shank from Center of Square, inches	1 5/8	1 3/4	2 1/2	4
Length of Glass, inches	2	2 1/2	3	4

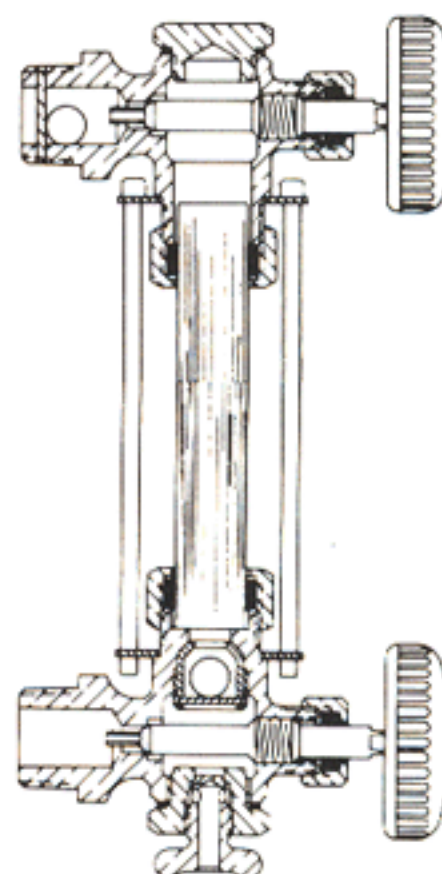
Size	Pipe Thread	Total Length	Window Length
*1	1/8	2 7/16	1 3/16
2	1/4	3	1 3/16
3	3/8	3	1 3/16
4	1/2	4 1/2	2 1/4
5	3/4	4 1/2	2
6	1	5	2 3/8
7	1 1/4	5 1/4	2 3/8
8	1 1/2	5 1/2	2 3/8



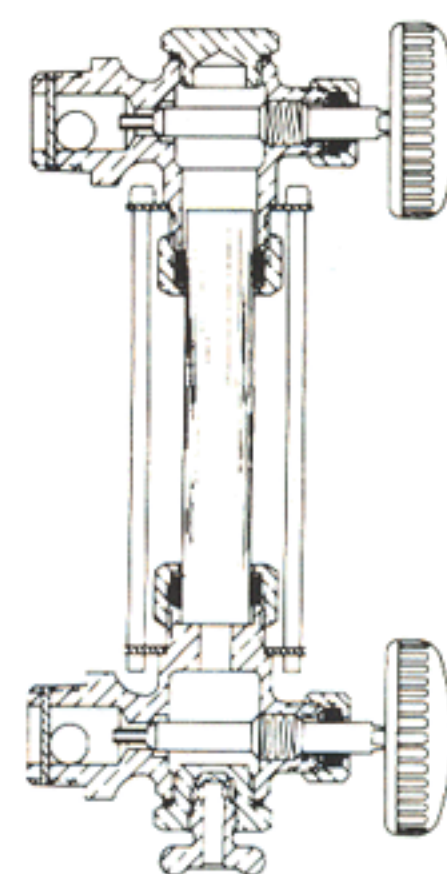
**Fig. 265  
Oil Line Gauge**

Available female both ends, male both ends, or male and female. Female - both ends supplied, unless otherwise specified.

**"Protex" Automatic Oil Gauges**



**Model 35-G  
For Pressure Tanks**



**Model 36-G  
For Gravity Tanks**

with Viton gaskets and packing

These oil gauges meet the demand for reliable oil tank equipment, for both crude oil and the more volatile refinery products. They shut off instantaneously when glass breaks, thus protecting life and property

Number	Pipe Thread	Center Distance	Glass Size	Rod Length
35G4	1/2	13 1/2	5/8 x 12	12 3/4
36G4	1/2	13 1/2	5/8 x 12	12 3/4
35G5	3/4	18	3/4 x 16	17
36G5	3/4	18	3/4 x 16	17

\*On #1 Only—O.A.L. of M x M Unit 3/8 Longer and O.A.L. of M x F Unit 3/16 Longer



## The Picture Tells the Story of Essex Superiority



The "O" Ring Seat assures leakproof performance and economy of air. The rugged brass body can take the punishment of industrial service like no other make on the market. Ease of maintenance is another desirable feature as it is only necessary to substitute a new "O" Ring which is available anywhere to make it perform like new after years of service.

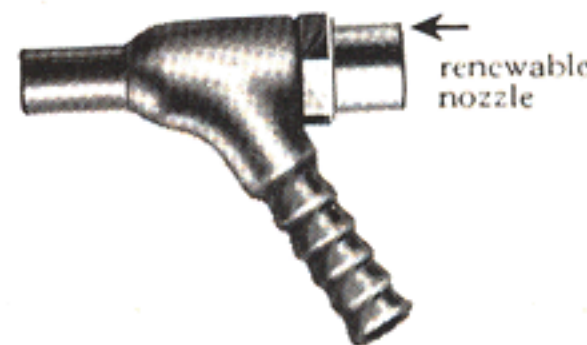
### For Air Pistols Meets U.S. Bureau of Labor Standards Sections 50-204.8 & 50-204.10



**Fig. 215**

Air Safety Nozzle  
Brass

Nozzle acts as a pressure regulator and reduces air pressure to 30 psi, 6 scfm (Max.) Specify  $\frac{1}{8}$  male or female pipe.



**Fig. 260**

Improved Spray Fitting  
Tapped  $\frac{1}{8}$ " Pipe with  
 $\frac{3}{8}$ " Hose Nipple

Can be used in combination with any of the foregoing air pistols, the pistol nozzle being threaded  $\frac{1}{8}$ " Pipe for this purpose. For Spraying, Painting, Cleaning, etc., this makes an ideal combination.



**Fig. 270**

Brass Hose Nipple

- $\frac{1}{8}$ " Hose,  $\frac{1}{8}$ " I. P. Thread
- $\frac{1}{4}$ " Hose,  $\frac{1}{8}$ " I. P. Thread
- $\frac{1}{4}$ " Hose,  $\frac{1}{4}$ " I. P. Thread
- $\frac{1}{4}$ " Hose,  $\frac{3}{8}$ " I. P. Thread
- $\frac{3}{8}$ " Hose,  $\frac{1}{8}$ " I. P. Thread
- $\frac{3}{8}$ " Hose,  $\frac{1}{4}$ " I. P. Thread
- $\frac{3}{8}$ " Hose,  $\frac{3}{8}$ " I. P. Thread
- $\frac{1}{2}$ " Hose,  $\frac{1}{4}$ " I. P. Thread
- $\frac{1}{2}$ " Hose,  $\frac{3}{8}$ " I. P. Thread
- $\frac{1}{2}$ " Hose,  $\frac{1}{2}$ " I. P. Thread
- $\frac{3}{4}$ " Hose,  $\frac{1}{2}$ " I. P. Thread
- 1" Hose, 1" I. P. Thread



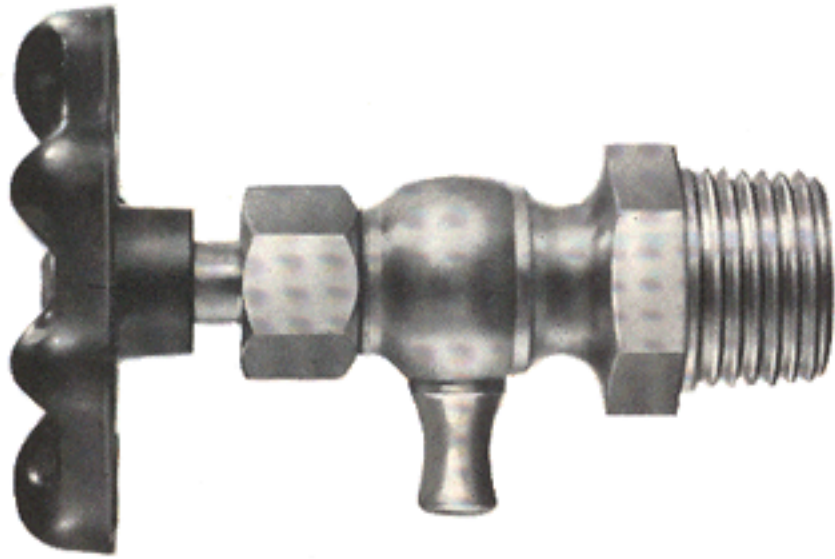
**Fig. 210**

Nozzle  
Threaded  
 $\frac{1}{8}$  N.P.T.

Sizes  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{3}{8}$  &  $\frac{1}{2}$  Pipe



Compression Gauge Cocks



With Stuffing Box

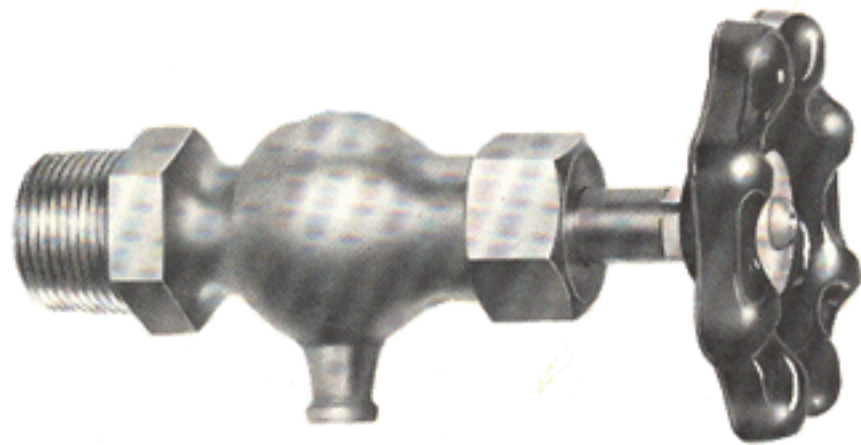
No. 24, No. 25 and No. 26  
No. 24P, No. 25P and No. 26P

MACHINE FINISH — ALUMINUM HANDLE

Number	Pipe Thread
24 .....	3/8
25 .....	1/2
26 .....	3/4

POLISHED FINISHED — BAKELITE HANDLE

Number	Pipe Thread
24P .....	3/8
25P .....	1/2
26P .....	3/4



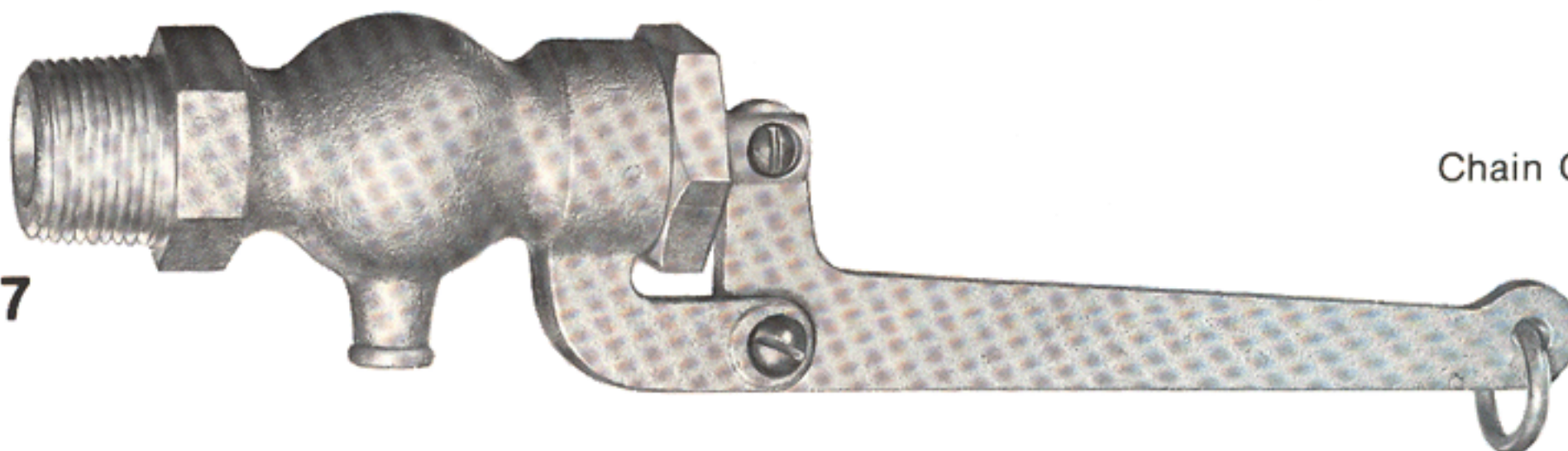
Cast Body  
Teflon Seat  
Aluminum Handle  
Stuffing Box

No. 27 and No. 28

Number	Pipe Thread
27 .....	1/2
28 .....	3/4

Chain Lever Gauge Cock

NOW WITH TEFLON SEAT

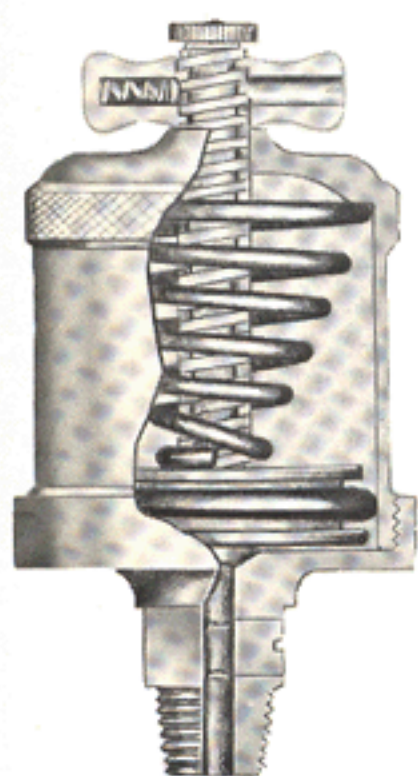


Chain Optional

Model 117  
Rough Body

Attached to water columns out of reach, this gauge cock may be easily operated by a chain or rod fastened to the end of the lever. Made from high grade red brass castings adapted to high pressure. Available in 1/2 and 3/4 N.P.T. — 250# S.W.P.





**Fig. 65**

## “Improved Automatic” Grease Cup

Heavy Cast Brass ; With “O” Ring Plunger

The Improved Automatic Grease Cup is of extra heavy substantial construction. It is particularly well adapted for use on movable bearings or where there is excessive vibration. The “O” ring used on the plunger is a great improvement over the leather cup formerly used as it provides a better seal with no maintenance. The body of this cup unscrews from the bottom for filling which is regarded by some engineers, as a more convenient arrangement.

Number	00	1	2	3	4
Inside Diameter, inches	1	1½	2	2½	3
Shank Pipe Thread, inches	⅛	¼	⅜	½	½
Capacity (Grease), ounces	⅓	1½	3	6	10



**Fig. 85**

## “Positive” Feed Grease Cup

Heavy Cast Brass

Our “Positive” grease cup is made expressly for feeding heavy grease to bearings, and is preferred in many cases to the spring compression style, especially where the temperature is continually changing. This cup is recommended for **marine** purposes and is strong and well made.

Number	00	0	1	2	4
Inside Diameter, inches	1	1¼	1½	2	3
Shank Pipe Thread, inches	⅛	¼	¼	⅜	½
Capacity (Grease), ounces	⅓	1	1½	3	10



**Fig. 95**

## “Automatic” Grease Cup

Heavy Cast Brass

For stationary or movable bearings, provides continuous pressure on the lubricant which forces the grease down on the bearing. The outlet through the shank is provided with a plug to regulate the quantity.

The leather piston cup has been replaced by an “O” ring which provides a better seal and long trouble free service.

Number	00	1	2	4
Inside Diameter, inches	1	1½	2	3
Shank Pipe Thread, inches	⅛	¼	⅜	½
Capacity (Grease), ounces	⅓	1½	3	10

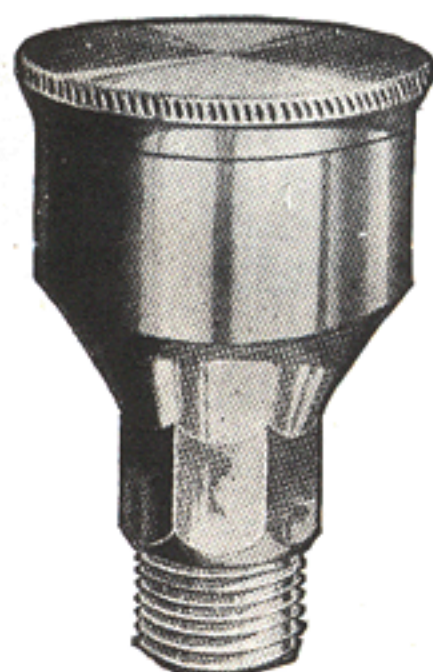


**Fig. 75**

## “Reliable” Grease Cup

Machined from brass for use where this material is more desirable.

Number	0	1	2
Inside Diameter, inches	1¼	1½	2
Shank Pipe Thread, inches	⅛	⅛	¼
Capacity, ounces	⅔	1	2



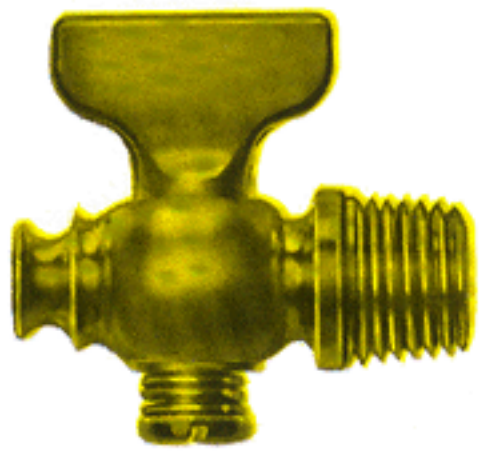
**Fig. 275**

Pressed from steel, this cup is strong and durable, and will last indefinitely. Threads are smooth and tight-fitting.

Number	000	00	0	1	2	3
Inside Diameter, inches	13/16	1	1¼	1½	2	2½
Shank Pipe Thread, inches	⅛	⅛ or ¼	⅛ or ¼	⅛ or ¼	⅛, ¼, ⅜	¼, ⅜, ½
Capacity (Grease), ounces	¼	½	⅔	1	2	3½



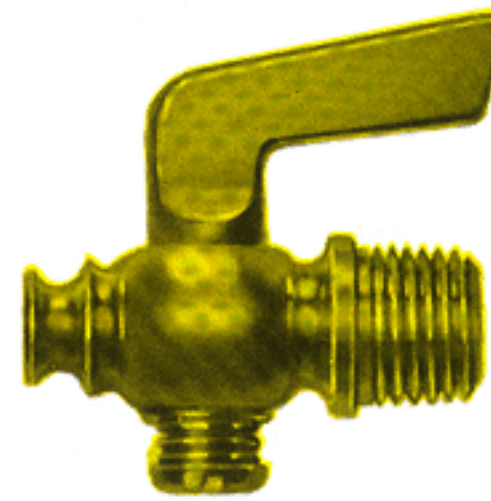
Air Cocks are rated for Service to 100 p.s.i. at Moderate Temperatures. Individually Tested for Higher Pressures if Needed



**TEE HANDLE PLAIN**

Number	Pipe Size
6	1/8"
7	1/4"
8*	3/8"
9*	1/2"

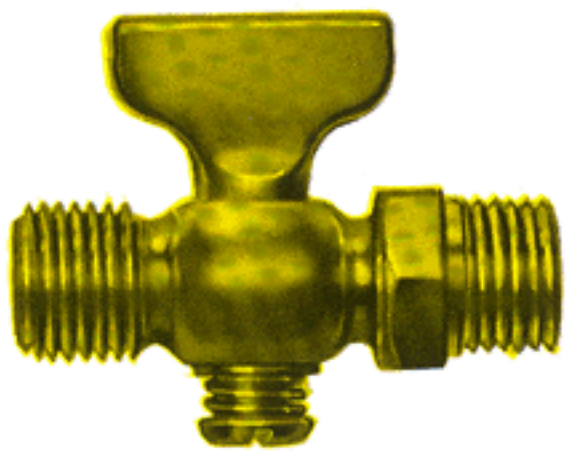
\*These sizes have Hexagon Shoulders, others are as illustrated.



**LEVER HANDLE PLAIN**

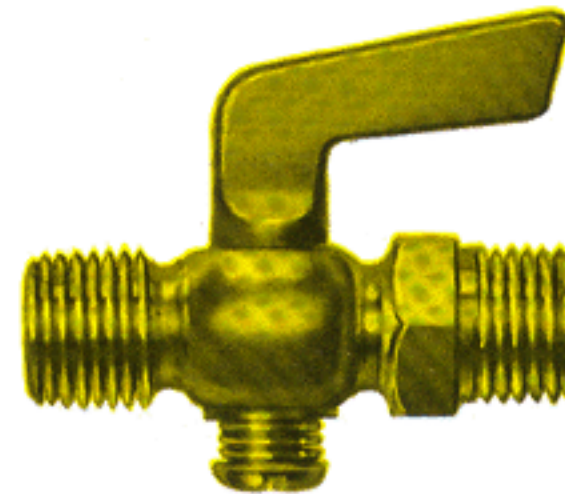
Number	Pipe Size
12	1/8"
13	1/4"
14*	3/8"
15*	1/2"
16*	3/4"

\*These sizes have Hexagon Shoulders, others are as illustrated.



**TEE HANDLE DOUBLE MALE**

Number	Pipe Size
18	1/8"
19	1/4"
20	3/8"
21	1/2"



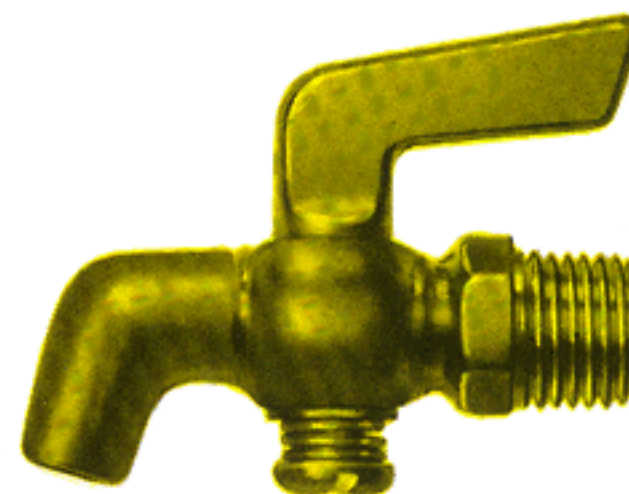
**LEVER HANDLE DOUBLE MALE**

Number	Pipe Size
22	1/8"
23	1/4"
24	3/8"
25	1/2"



**TEE HANDLE WITH BIBB**

Number	Pipe Size
26	1/8"
27	1/4"
28	3/8"
33	1/2"



**LEVER HANDLE WITH BIBB**

Number	Pipe Size
29	1/8"
30	1/4"
31	3/8"
32	1/2"



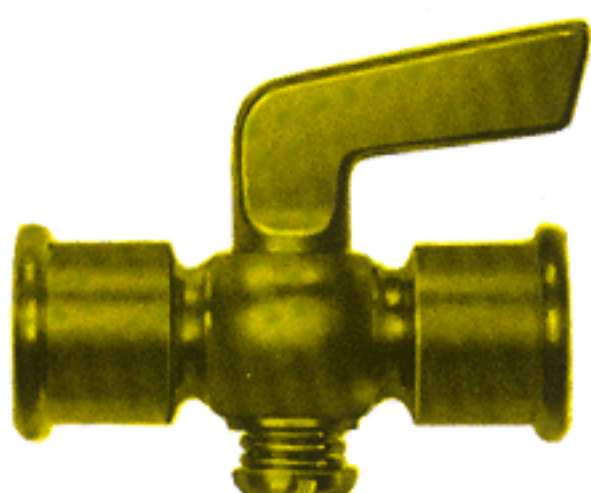
**TEE HANDLE DOUBLE FEMALE**

Number	Pipe Size
37	1/8"
38	1/4"
39	3/8"



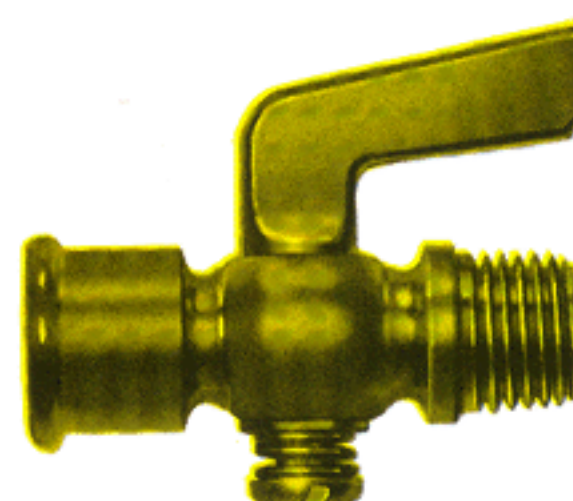
**TEE HANDLE MALE & FEMALE**

Number	Pipe Size
40	1/8"
41	1/4"
42	3/8"



**LEVER HANDLE DOUBLE FEMALE**

Number	Pipe Size
43	1/8"
44	1/4"
45	3/8"
45A	1/2"



**LEVER HANDLE MALE & FEMALE**

Number	Pipe Size
46	1/8"
47	1/4"
48	3/8"
48A	1/2"

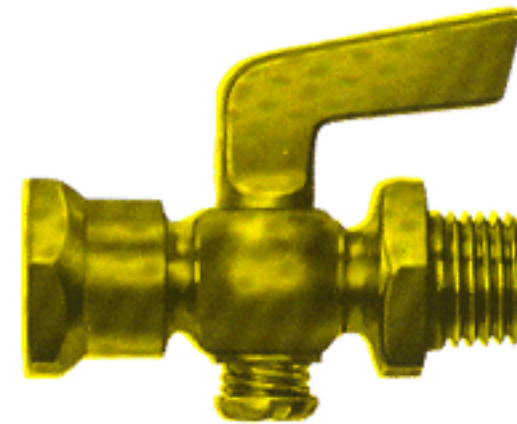


Machine Finish is Standard on all Cocks, with Polished or Plated Finish Available at Extra Cost.



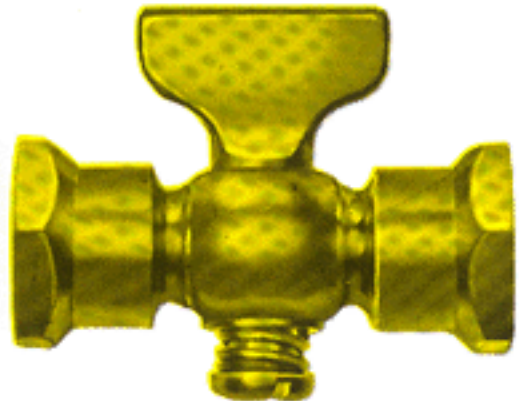
**Tee Handle  
Male & Female  
Hexagon Shoulder**

Number	Pipe Size
49	1/8"
50	1/4"
51	3/8"



**Lever Handle  
Male & Female  
Hexagon Shoulder**

Number	Pipe Size
52	1/8"
53	1/4"
54	3/8"
54A	1/2"



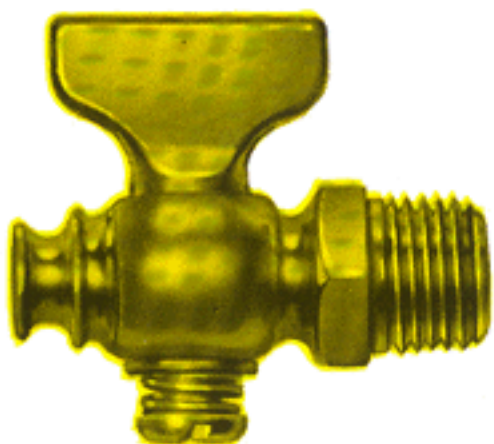
**Tee Handle  
Double Female  
Hexagon Shoulder**

Number	Pipe Size
55	1/8"
56	1/4"
57	3/8"



**Lever Handle  
Double Female  
Hexagon Shoulder**

Number	Pipe Size
58	1/8"
59	1/4"
60	3/8"
60A	1/2"



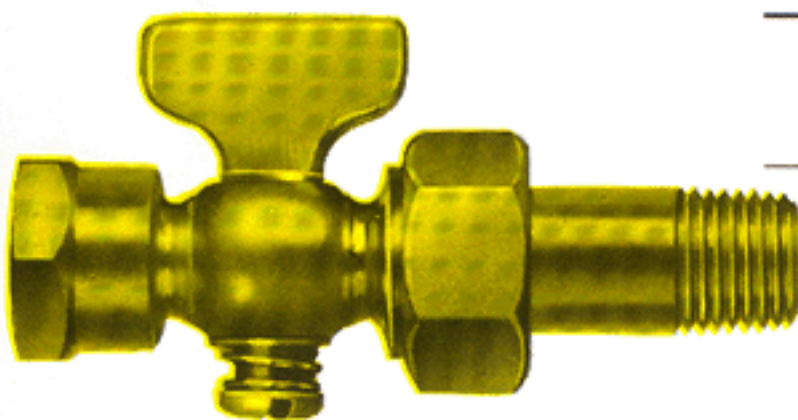
**Tee Handle  
Hexagon Shoulder**

Number	Pipe Size
63-T	1/8"
64-T	1/4"



**Lever Handle  
Hexagon Shoulder**

Number	Pipe Size
63-L	1/8"
64-L	1/4"



**Tee Handle, Female  
with Male Union**

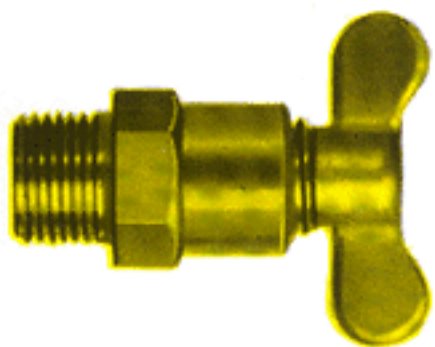
Number	Pipe Size
81-T	1/4"



**Lever Handle, Female  
with Male Union**

Number	Pipe Size
81-L	1/4"

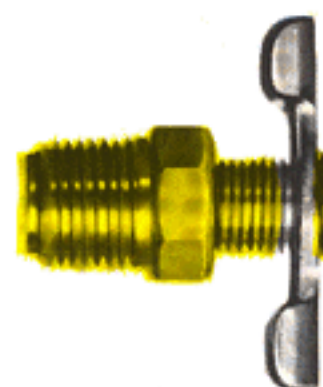
## DRAIN COCKS



**#DC-100  
Forged Handle  
Type  
Sizes 1/8" & 1/4" pipe**



**#DC-101  
Side Outlet  
Type  
Sizes 1/8" & 1/4" pipe**



**#DC-102  
Back Seating  
Type  
Sizes 1/8" & 1/4" pipe**



**Lever Handle  
Rough Cast Body**

Number	Pipe Size
180	1/8"
181	1/4"
182	3/8"
183	1/2"

"Essex" Air Cocks and Shut-Off Cocks are Spring-Key Type Cocks of All Brass Construction with Stainless Steel Springs.



Shut-Off Cocks are Rated for Service to 100 p.s.i. at Moderate Temperatures.  
 Individually Tested for Higher Pressures if Needed.  
 Flared Tube Connections are SAE 45° Type.  
 Compression Connections are "Ball Sleeve" Type.  
 All Cocks with Tube Connections are Furnished without Nuts or Sleeves, Unless Otherwise Specified on Order.



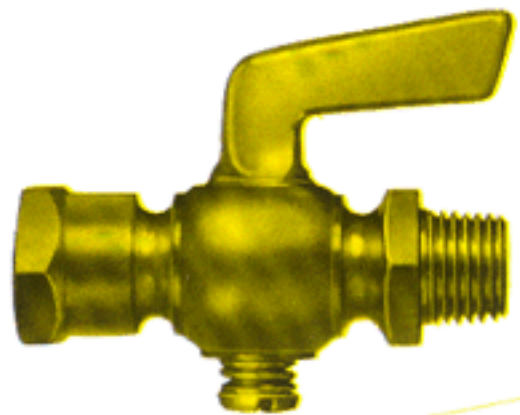
Male Pipe Thd.  
Both Ends

Number	Pipe Size
110	1/8"
111	1/4"
112	3/8"
113	1/2"



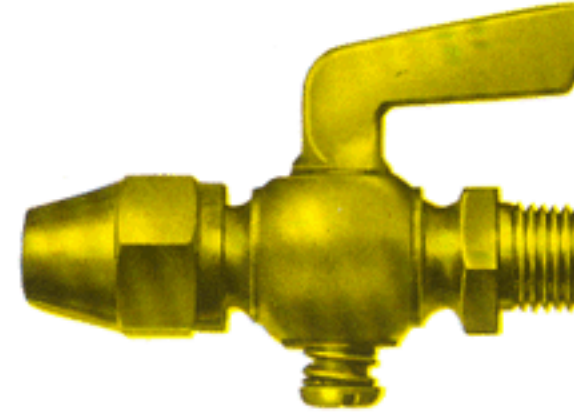
Female Pipe Thd.  
Both Ends

Number	Pipe Size
120	1/8"
121	1/4"
122	3/8"
123	1/2"



Male & Female  
Pipe Thd.

Number	Pipe Size
130	1/8"
131	1/4"
132	3/8"
133	1/2"



Flared Tube and  
Male Pipe Thd.

Number	Tube O.D.	Pipe Size
140	1/4"	1/8"
141	1/4"	1/4"
142	5/16"	1/8"
143	5/16"	1/4"
144	3/8"	1/4"
145	1/2"	3/8"



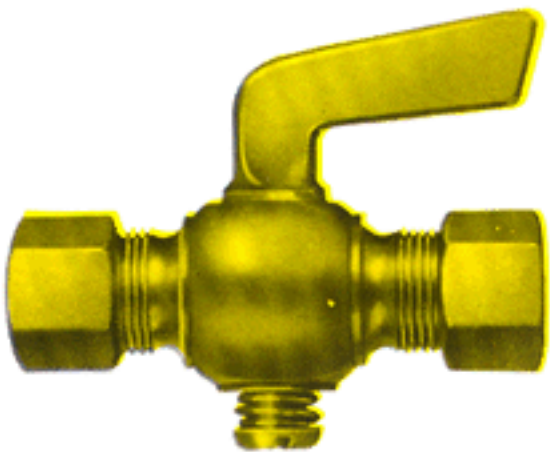
Flared Tube  
Both Ends

Number	Tube O.D.
150	1/4"
151	5/16"
152	3/8"
153	1/2"



Compression Tube  
and Male Pipe Thd.

Number	Tube O.D.	Pipe Size
160	1/4"	1/8"
161	1/4"	1/4"
162	5/16"	1/8"
163	5/16"	1/4"
164	3/8"	1/4"
165	1/2"	3/8"



Compression Tube  
Both Ends

Number	Tube O.D.
170	1/4"
171	5/16"
172	3/8"
173	1/2"



#119  
Male Hose Cock  
for 3/8" Hose  
Available with  
1/8, 1/4, 3/8, 1/2  
Male Pipe Thd.



#125  
Underwriters Cock  
with Umbrella Hood  
1/2" Male Pipe Thd.  
Only



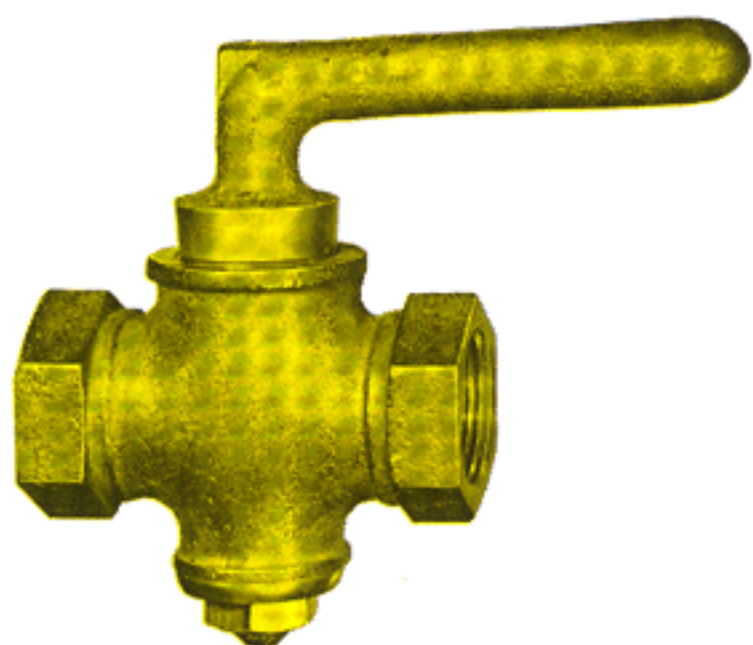
Priming Cups  
Long Shank Type  
with Male Pipe Thd.

Number	Pipe Size
503	1/8"
507	1/4"





*"It Pays to Buy Hays"*



## No. 1040 Standard Low Pressure Stop

For Water - Oil - Air  
50 Lbs. Working Pressure  
ALL BRASS CONSTRUCTION

Sizes  $\frac{1}{4}$ " thru 1" Female I.P.



## No. 1600, 1605, & 1610 Steam Stops

For Steam - Water - Gas - Oil - Air  
125 Lbs. Working Pressure  
BRONZE STEAM METAL CONSTRUCTION

No. 1600 — Flat Head Stop —  $\frac{1}{4}$ " thru 2" Female I.P.

No. 1605 — Square Head Stop (Illustrated) —  $\frac{1}{4}$ " thru 3" Female I.P.

No. 1610 — Square Head Stop with Wrench —  $\frac{1}{4}$ " and  $\frac{1}{2}$ " thru 3" Female I.P.



## No. 7000

## No. 7000 & 7005 Gas Stops

For Low Pressures  
GAS SERVICE BRONZE CONSTRUCTION



## No. 7005

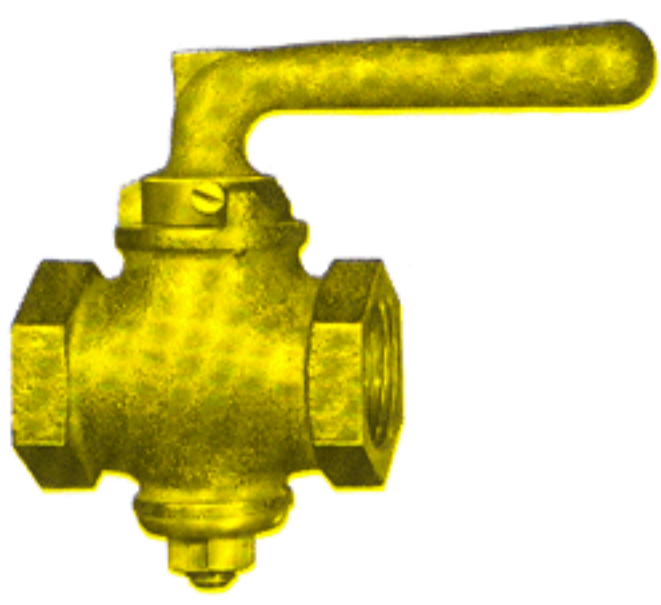
No. 7000 — Flat Head Stop —  $\frac{1}{4}$ " thru 2" Female I.P.

No. 7005 — Square Head Stop —  $\frac{1}{4}$ " thru 3" Female I.P.





*"It Pays to Buy Hays"*



### No. 7080 Low Pressure Gas Stop

**For Stoves & Appliances**  
ALL BRONZE CONSTRUCTION

Sizes 1/4" thru 2" Female I.P.

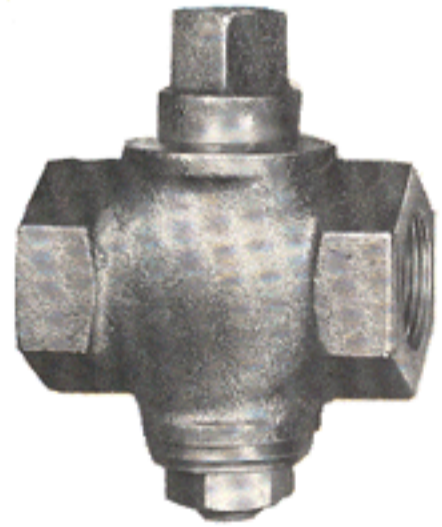


### No. 7305 High Pressure Stop

**For Steam - Water - Gas - Oil - Air**  
250 Lbs. Working Pressure  
BRONZE STEAM METAL CONSTRUCTION

Sizes 1/4" and 1/2" thru 2" Female I.P.

Square Head



### No. 7450 All Iron Stop

**For Steam - Water - Gas - Oil - Air**  
150 Lbs. Working Pressure  
ALL IRON CONSTRUCTION

Sizes 1/4" thru 3" Female I.P.

Square Head



### No. 2145 "Midg-O-Matic" Valve

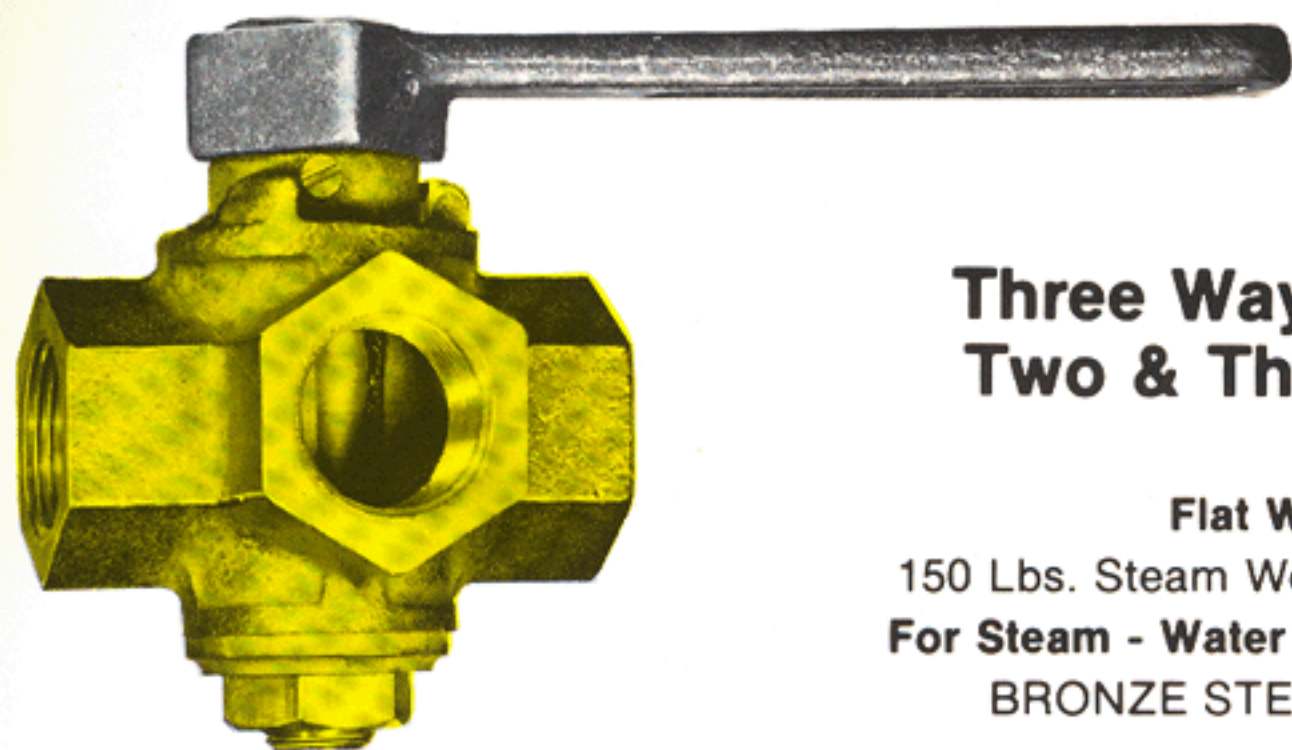
- Waterproof Coil
- Cast Bronze Body
- Conduit Outlet

100 P.S.I. Working Pressure  
140° F. Max. Temperature  
1/4" Female I.P. Only, with 1/8" Orifice

Available in  
24V, 120V, 208V, 240V, 480V

50/60 Cy. — A.C. Only





**No. 7600, No. 7605, No. 7610, & No. 7615**

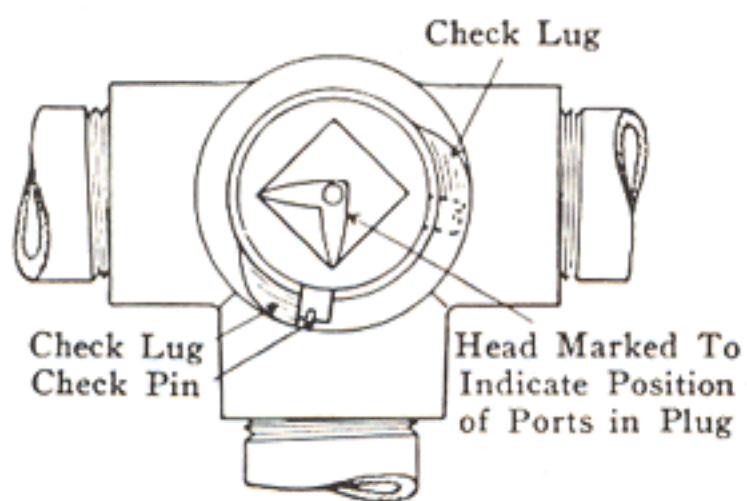
## Three Way Stops - Two & Three Port

**Flat Way**

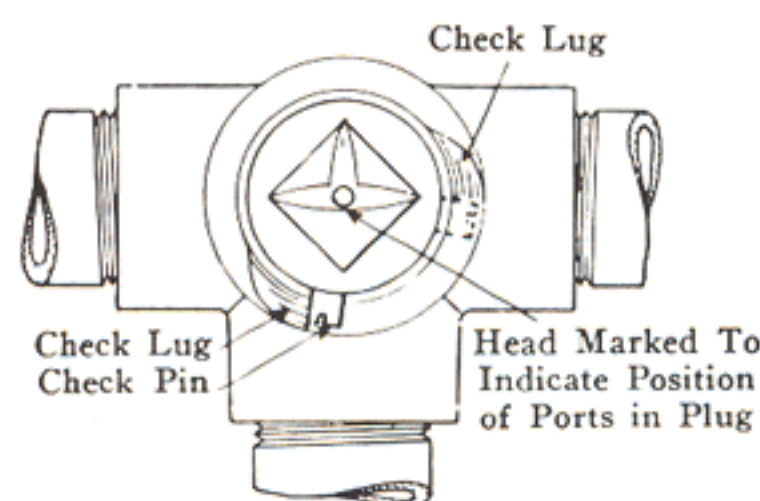
150 Lbs. Steam Working Pressure  
**For Steam - Water - Gas - Oil - Air**  
 BRONZE STEAM METAL

No. 7600 — Three Port — with handle  
 No. 7605 — Three Port — less handle  
 No. 7610 — Two Port — with handle  
 No. 7615 — Two Port — less handle  
 No. 7605 and No. 7615 Sizes 1/4" thru 3" Female I.P.  
 No. 7600 and No. 7610 Sizes 3/8" thru 3" Female I.P.

### Two Port Chart Explaining Positions of Ports



### Three Port Chart Explaining Positions of Ports

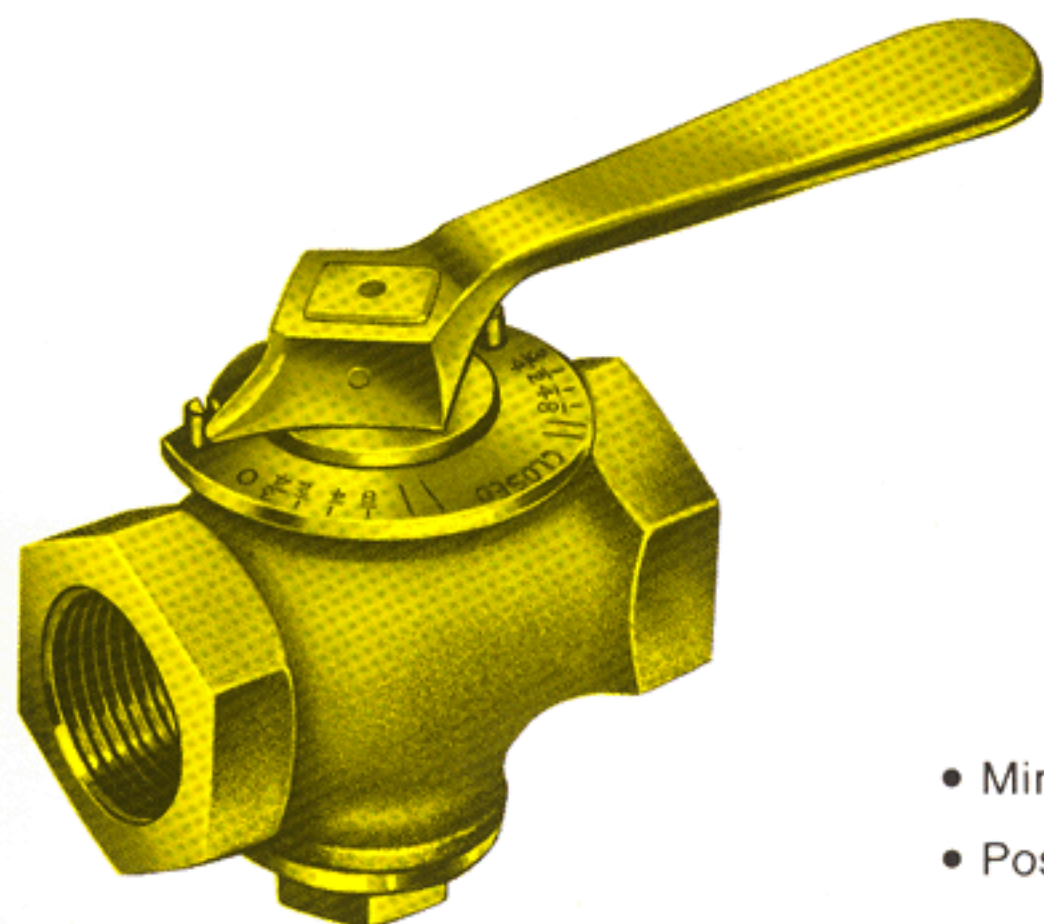
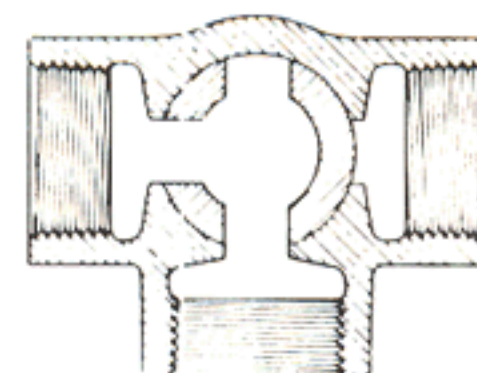
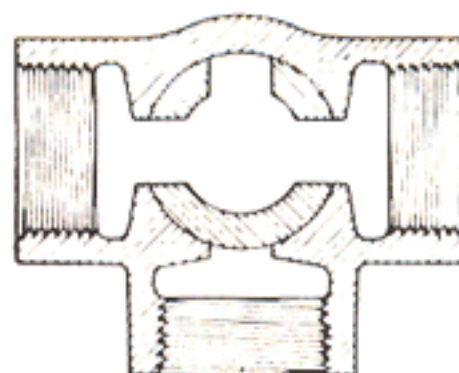
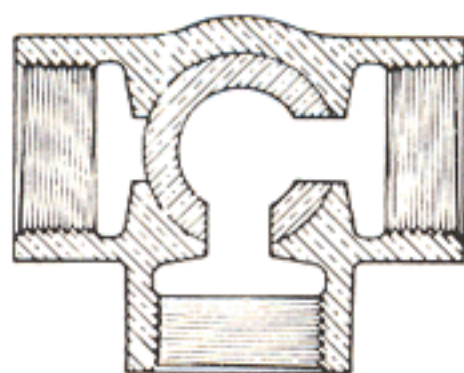
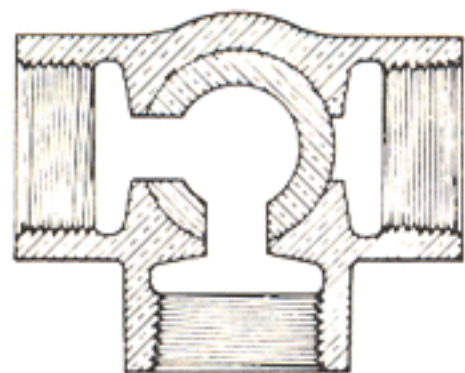


Position of Ports with Check Pin Shown in Dotted Lines Above

Position of Ports with Check Pin Shown in Solid Lines Above

Position of Ports with Check Pin Shown in Solid Lines Above

Position of Ports with Check Pin Shown in Dotted Lines Above



## No. 7620 Graduated Dial Stop

The Basic Throttling Valve of Industry for  
**Steam - Water - Gas - Air**  
 150 Lbs. Working Pressure

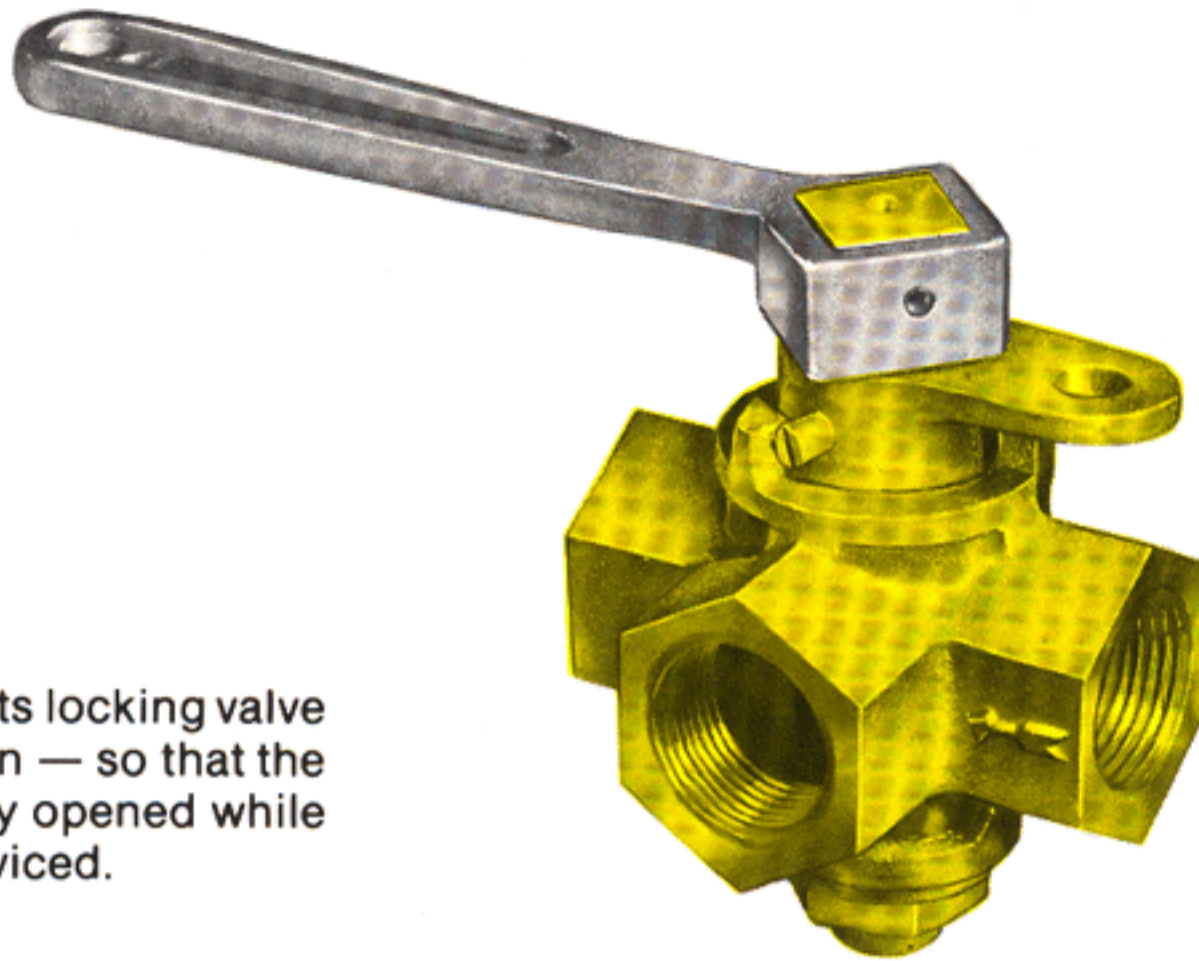
- Minimum pressure drop
- Positive shutoff

- Bronze steam metal construction with "half diamond" flow way

Sizes 1/4" thru 3" Female I.P.



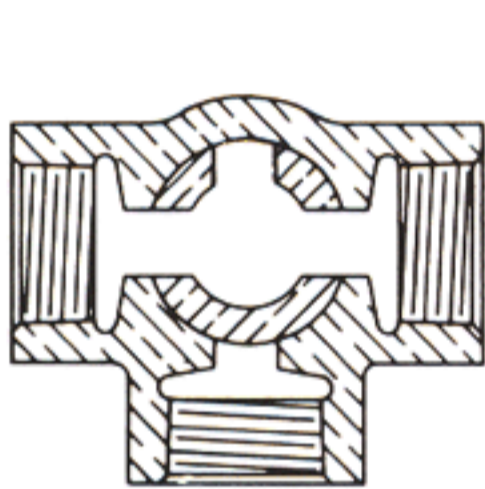
## No. 7601-1 Three Way "Airlok" Safety Valve



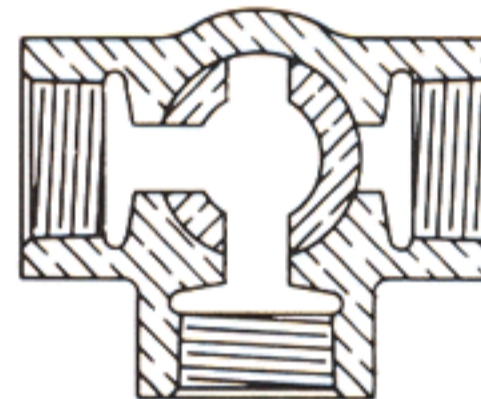
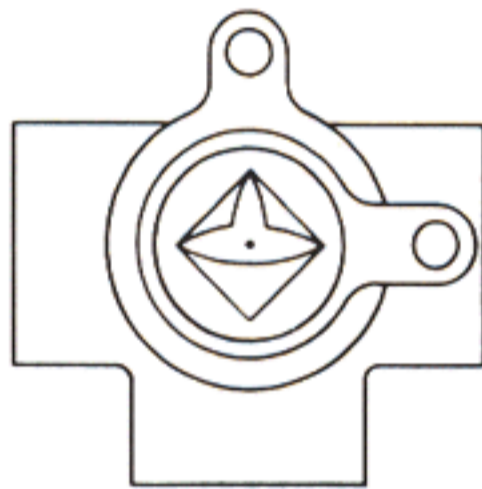
### Airlok Features:

- Rugged bronze body
- Plug and body ground for perfect seating
- Buna-N "O" rings  
1/2", 3/4" and 1" I.P. only
- Air tested to 100 lbs. under water
- Presently available in sizes  
1/2" through 2" I.P.S.

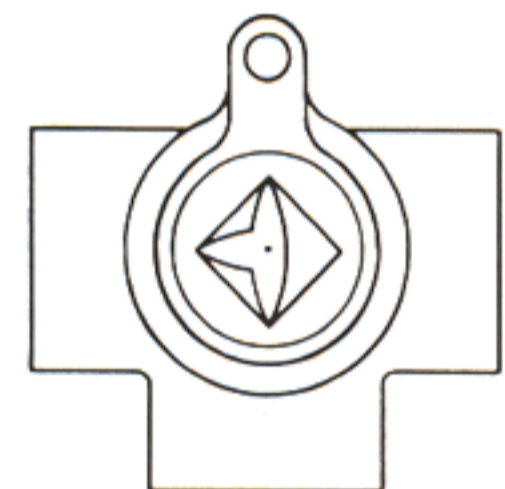
The Lockwing design permits locking valve in the off or exhaust position — so that the valve cannot be accidentally opened while the equipment is being serviced.



Open or Unlocked Position



Closed or Locked Position



## Malleable Iron Wrenches

For Square Head Stops

### No. 7690



Stop No.	Size of Stop									
	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	Wrench Number									
1262	—	3	3	4	5	6	7	8	8	9
1263	—	3	3	4	5	6	7	8	8	9
1275	—	3	3	4	5	6	7	8	8	9
1605	1	—	3	4	5	6	7	8	8	9
7005	1	—	3	4	5	6	7	8	8	9
7305	—	—	4	5	6	7	8	8	—	—
7450	—	—	3	5	6	7	8	9	8	9
7605	—	3	4	5	6	7	8	8	8	9
7615	—	3	4	5	6	7	8	8	8	9

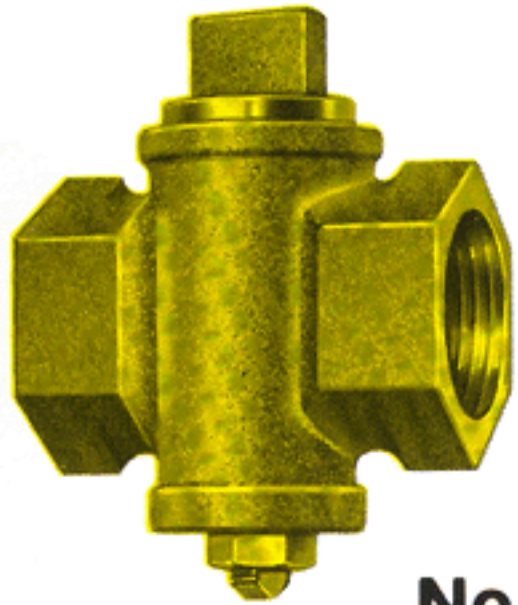




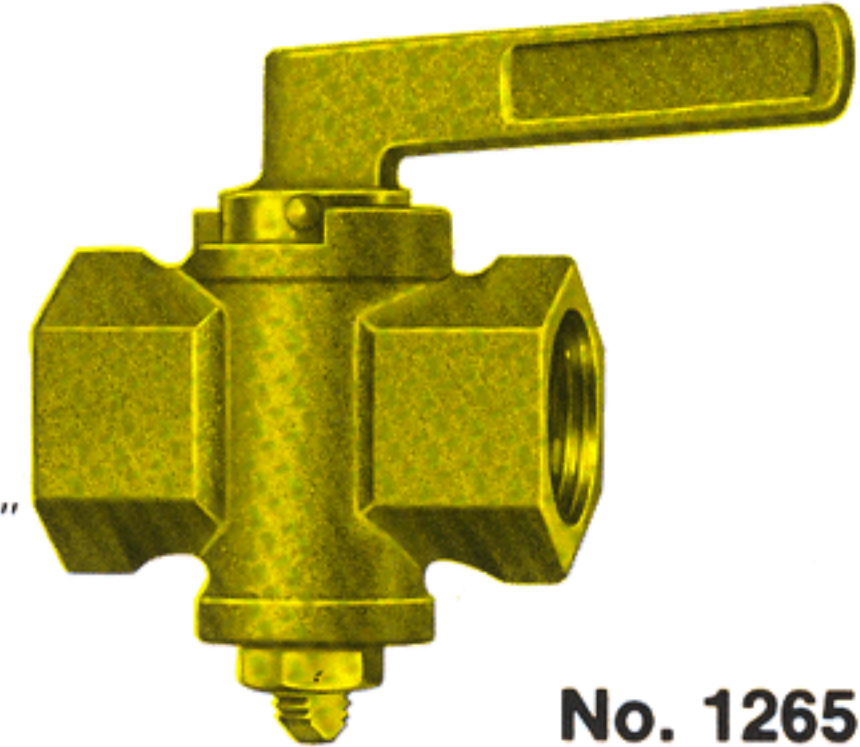
## "Rival" Gas Stops Gas Service Bronze Construction

- No. 1260 — Flat Head Less Check
- No. 1261 — Flat Head with Check
- No. 1265 — Lever Handle with Check

No. 1260 and No. 1265 Female I.P. Sizes  $\frac{3}{8}$ " to 2"  
No. 1261 Female I.P. Sizes  $\frac{1}{2}$ " and  $\frac{3}{4}$ " only



**No. 1260**



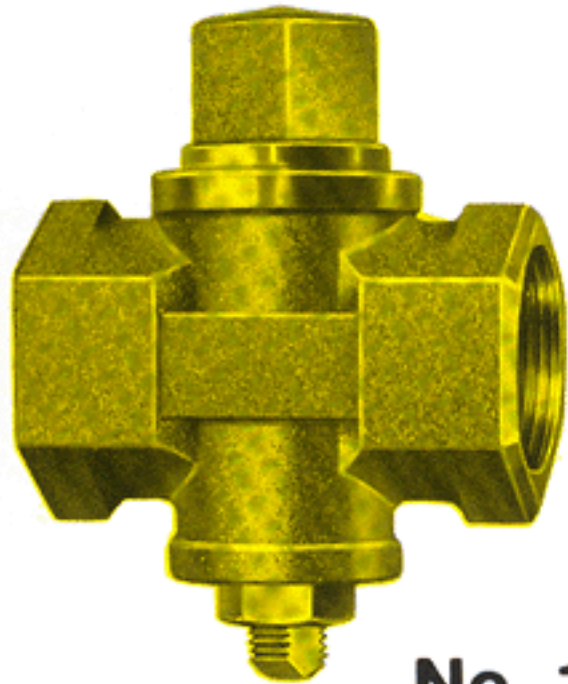
**No. 1265**

## "Rival" Steam Stops

Bronze Steam Metal Construction  
125 Lbs. Working Pressure

### No. 1275 Square Head Less Check







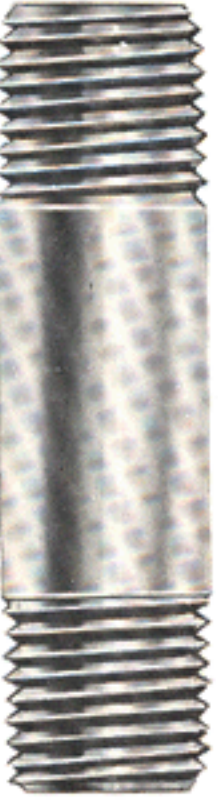

































Female I.P. Sizes  $\frac{3}{8}$ " to 2"



**No. 1275**

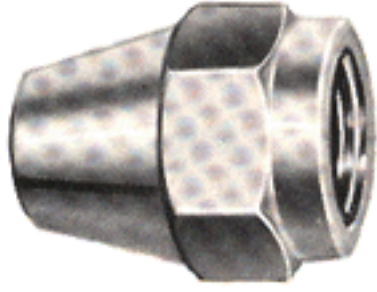





**“Essex” Brass Pipe Fittings**





Item	Pipe Size	Item	Pipe Size	Item	Pipe Size	
#110 Lock Nuts	1/8	#116 Hex Nipple  M.P.T. x M.P.T.	1/4	#282 Street Elbow—90°  M.P.T. x F.P.T.	1/8	
	1/4		3/8		1/4	
	3/8		1/2		3/8	
#115 Close Nipple	1/8	#261 Sq. Hd. Plug  M.P.T.	3/4	#283 Street Elbow—45°  M.P.T. x F.P.T.	1/8	
	1/4		1/2		1/4	
	3/8		3/4		3/8	
M.P.T.	1/2	#262 Tee Hd. Plug  M.P.T.	1	#284 Tee—Female  M.P.T. x F.P.T.	1/2	
#115 Long Nipple 	3/4		1/4		#287 Coupling  F.P.T. Both Ends	1/8
	Pipe Size x Lt'g.		3/8			1/4
	1/8 x 1 1/2	1/2 x 2	1/2	3/8		
1/4 x 1 1/2	3/4 x 2	#263 Hex Hd. Plug  Solid or Cored M.P.T.	3/8	#291 Bushing  M.P.T. x F.P.T.	1/8	
3/8 x 1 1/2	1/2 x 2 1/2		1/2		1/4	
1/2 x 1 1/2	3/4 x 2 1/2		3/4		3/8	
1/8 x 2	1/8 x 3	#264 C'Sunk Hd. Plug  M.P.T.	1	#289 Reduc. Adapter  F.P.T. x M.P.T.	1/8	
1/4 x 2	1/4 x 3		1/8 (Sq.)		1/4 x 1/8	
3/8 x 2	3/8 x 3		1 (Sq.)		3/8 x 1/4	
1/2 x 2	1/2 x 3	#265 Slot'd Hd. Plug  M.P.T.	3/8	#292 Reduc. Adapter  F.P.T. x M.P.T.	1/4	
3/4 x 2	3/4 x 3		1/2		3/8	
1/8 x 2 1/2	1/8 x 3 1/2		3/4		1/2	
1/4 x 2 1/2	1/4 x 3 1/2	#280 Elbow—90°  F.P.T.	1	#292 Reduc. Adapter  F.P.T. x M.P.T.	3/8	
3/8 x 2 1/2	3/8 x 3 1/2		3/8 x 1/4		1/2	
1/2 x 2 1/2	1/2 x 3 1/2		1/2		3/4	
3/4 x 2 1/2	3/4 x 3 1/2	#280 Elbow—90°  F.P.T.	3/4	#292 Reduc. Adapter  F.P.T. x M.P.T.	1	
1/8 x 3	1/8 x 3 1/2		1/2		3/8	
1/4 x 3	1/4 x 3 1/2		3/4		1/2	
3/8 x 3	3/8 x 3 1/2	#280 Elbow—90°  F.P.T.	1	#292 Reduc. Adapter  F.P.T. x M.P.T.	3/4	
1/2 x 3	1/2 x 3 1/2		1/2		1	
3/4 x 3	3/4 x 3 1/2		3/4		3/4	
1/8 x 3 1/2	1/8 x 4	#280 Elbow—90°  F.P.T.	1	#292 Reduc. Adapter  F.P.T. x M.P.T.	1	
1/4 x 3 1/2	1/4 x 4		1/2		3/8	
3/8 x 3 1/2	3/8 x 4		3/4		1/2	
1/2 x 3 1/2	1/2 x 4	#280 Elbow—90°  F.P.T.	1	#292 Reduc. Adapter  F.P.T. x M.P.T.	1	
3/4 x 3 1/2	3/4 x 4		1/2		3/8	
1/8 x 4	1/8 x 4 1/2		3/4		1/2	
1/4 x 4	1/4 x 4 1/2	#280 Elbow—90°  F.P.T.	1	#292 Reduc. Adapter  F.P.T. x M.P.T.	1	
3/8 x 4	3/8 x 4 1/2		1/2		3/8	
1/2 x 4	1/2 x 4 1/2		3/4		1/2	
3/4 x 4	3/4 x 4 1/2	#280 Elbow—90°  F.P.T.	1	#292 Reduc. Adapter  F.P.T. x M.P.T.	1	
1/8 x 4 1/2	1/8 x 5		1/2		3/8	
1/4 x 4 1/2	1/4 x 5		3/4		1/2	
3/8 x 4 1/2	3/8 x 5	#280 Elbow—90°  F.P.T.	1	#292 Reduc. Adapter  F.P.T. x M.P.T.	1	
1/2 x 4 1/2	1/2 x 5		1/2		3/8	
3/4 x 4 1/2	3/4 x 5		3/4		1/2	
1/8 x 5	1/8 x 5 1/2	#280 Elbow—90°  F.P.T.	1	#292 Reduc. Adapter  F.P.T. x M.P.T.	1	
1/4 x 5	1/4 x 5 1/2		1/2		3/8	
3/8 x 5	3/8 x 5 1/2		3/4		1/2	
1/2 x 5	1/2 x 5 1/2	#280 Elbow—90°  F.P.T.	1	#292 Reduc. Adapter  F.P.T. x M.P.T.	1	
3/4 x 5	3/4 x 5 1/2		1/2		3/8	
1/8 x 5 1/2	1/8 x 6		3/4		1/2	
1/4 x 5 1/2	1/4 x 6	#280 Elbow—90°  F.P.T.	1	#292 Reduc. Adapter  F.P.T. x M.P.T.	1	
3/8 x 5 1/2	3/8 x 6		1/2		3/8	
1/2 x 5 1/2	1/2 x 6		3/4		1/2	
3/4 x 5 1/2	3/4 x 6	#280 Elbow—90°  F.P.T.	1	#292 Reduc. Adapter  F.P.T. x M.P.T.	1	
1/8 x 6	1/8 x 6		1/2		3/8	
1/4 x 6	1/4 x 6		3/4		1/2	
3/8 x 6	3/8 x 6	#280 Elbow—90°  F.P.T.	1	#292 Reduc. Adapter  F.P.T. x M.P.T.	1	
1/2 x 6	1/2 x 6		1/2		3/8	
3/4 x 6	3/4 x 6		3/4		1/2	



## "Essex" 45° S.A.E. Flared Tube Fittings of High Quality Brass

Item	Size	Item	Size
<b>#62</b> <b>Flare Nut—Short</b> 	<b>Tube Size—Th'd</b>	<b>#64</b> <b>Union</b> 	<b>Tube x M.P.T.</b>
	1/8 — 5/16-24		1/8 x 1/8
	3/16 — 3/8 -24		3/16 x 1/8
	1/4 — 7/16-20		3/16 x 1/4
	5/16 — 1/2 -20		1/4 x 1/8
	3/8 — 5/8 -18		1/4 x 1/4
	1/2 — 3/4 -16		1/4 x 3/8
	5/8 — 7/8 -14		1/4 x 1/2
	3/4 — 1 1/16-14		5/16 x 1/8
	7/8 — 1 1/4 -12		5/16 x 1/4
<b>#63</b> <b>Elbow</b> 	<b>Tube x M.P.T.</b>	<b>with</b> <b>Male Pipe Thd.</b>	5/16 x 3/8
	1/8 x 1/8		5/16 x 1/2
	3/16 x 1/8		3/8 x 1/8
	1/4 x 1/8		3/8 x 1/4
	1/4 x 1/4		3/8 x 3/8
	1/4 x 3/8		3/8 x 1/2
	5/16 x 1/8		3/8 x 3/4
	5/16 x 1/4		1/2 x 1/4
	5/16 x 3/8		1/2 x 3/8
	3/8 x 1/8		1/2 x 1/2
	3/8 x 1/4		1/2 x 3/4
	3/8 x 3/8		5/8 x 3/8
	3/8 x 1/2		5/8 x 1/2
	1/2 x 1/8		5/8 x 3/4
	1/2 x 1/4		3/4 x 1/2
	1/2 x 3/8		3/4 x 3/4
	1/2 x 1/2		
	1/2 x 3/4		
	5/8 x 1/4		
	5/8 x 3/8		
5/8 x 1/2			
5/8 x 3/4			
3/4 x 3/8			
3/4 x 1/2			
3/4 x 3/4			
3/4 x 1			
<b>#65</b> <b>Full Union</b> 			<b>Tube—Both Ends</b>
			1/8
			3/16
			1/4
			5/16
			3/8
			1/2
			5/8
			3/4

## "Essex" Compression Fittings of High Quality Brass

Item	Size	Item	Size	Item	Size	
<b>#300</b> <b>Connector</b> 	<b>Tube x M.P.T.</b>	<b>#350</b> <b>Sleeve</b> 	<b>Tube Size</b>	<b>#401</b> <b>Elbow</b> 	<b>Tube x M.P.T.</b>	
	1/8 x 1/8		1/8		7/16	1/8 x 1/8
	3/16 x 1/8		3/16		1/2	3/16 x 1/8
	3/16 x 1/4		1/4		5/8	3/16 x 1/4
	1/4 x 1/8		5/16		3/4	1/4 x 1/8
	1/4 x 1/4		3/8		7/8	1/4 x 1/4
	1/4 x 3/8					1/4 x 3/8
	1/4 x 1/2					5/16 x 1/8
	5/16 x 1/8					5/16 x 1/4
	5/16 x 1/4					5/16 x 3/8
	5/16 x 1/2			5/16 x 1/2		
	3/8 x 1/8			3/8 x 1/8		
	3/8 x 1/4			3/8 x 1/4		
	3/8 x 3/8			3/8 x 3/8		
	3/8 x 1/2			3/8 x 1/2		
	7/16 x 1/4			1/2 x 1/4		
	7/16 x 3/8			1/2 x 3/8		
	1/2 x 1/8			1/2 x 1/2		
	1/2 x 1/4			1/2 x 3/8		
	1/2 x 3/8			5/8 x 3/8		
1/2 x 1/2			5/8 x 1/2			
1/2 x 3/4			5/8 x 3/4			
5/8 x 3/8			5/8 x 1/2			
5/8 x 1/2			5/8 x 3/4			
5/8 x 3/4			3/4 x 1/2			
3/4 x 1/2			3/4 x 3/4			
7/8 x 3/4						
<b>#360</b> <b>Nut</b> 		<b>#360</b> <b>Nut</b> 	<b>Tube Size—Thd.</b>			
				1/8 — 5/16-24		
				3/16 — 3/8 -24		
				1/4 — 7/16-24		
				5/16 — 1/2 -24		
				3/8 — 9/16-24		
				7/16 — 5/8 -24		
				1/2 — 1 1/16-20		
				5/8 — 1 3/16-18		
				7/8 — 1 1/8 -18		



### “Hydro” Glass Body Sight-Feed Oiler

For Gas, Gasoline or Oil Engines, Blowers, Etc.



Fig. 77

Our Fig. 77 Glass Body Gas Engine Lubricator is intended to feed the oil directly into the cylinders of gas engines. The bent tube, shown within the cup, conveys the pressure to the upper part of the body, where it equalizes pressure on the oil and permits gravity to feed the oil.

The regulation of the feed is accomplished by turning the knurled adjusting nut, and is started or stopped by raising or lowering the snap lever. This mechanism is the same as we use on our “Pilot” oilers, and is without question the simplest and most efficient arrangement which can be used.

The shanks are fitted with ball checks which prevent the oil from blowing back.

Size No.	1½	2	3	4	5	6	7
Outside Diameter of Glass, inches	1¾	2	2¼	2½	3	3½	4¼
Height of Glass, inches	1⅝	1⅞	2⅛	2⅜	3	4	5
Capacity, ounces	1½	2½	4	5	10	Pint	Quart
Shank Pipe Thread, inches	¼	⅜	⅜	⅜	½	½	¾

### “Pilot” Snap Lever Sight Feed Oiler

With Snap Filler Opening



Fig. 33-A

Great care has been exercised in producing this oiler to make it desirable for high-class engines and machinery. It is of handsome design, strong and substantially constructed, simple in operation, compact and well made. Owing to its few parts, it will not get out of order, nor shake to pieces when placed on vibrating machinery.

Because of its many advantages, our “Pilot” oiler enjoys a reputation unsurpassed for reliability and durability.

**To Operate Cup:** Raise lever to stand perpendicular. Raise or lower the valve stem by turning the milled nut till the proper feed is obtained. To flush bearing, move lever to an angle of 45 degrees. Illustration above shows cup with feed shut off.

Number	00	0	1	1½	2	3	4	5	6	7
Outside Diameter of Glass, inches	1⅞	1¼	1½	1¾	2	2¼	2½	3	3½	4¼
Height of Glass, in.	1	1⅞	1⅜	1⅝	1⅞	2⅛	2⅜	3	4	5
Capacity, ounces	½	⅝	1	1½	2½	4	5	10	Pint	Quart
Shank Pipe Thread, in.	⅞	⅞	¼	¼	⅜	⅜	⅜	½	½	¾

### “Peerless” Glass Body Sight Feed Oiler for High Speed Spindles

Modern production methods demand output of parts of extreme accuracy at high speeds, and the proper lubrication of the high speed grinding spindles used in such production has created a special problem which has been successfully solved by our “Peerless” oiler. The presence of grit or water in accurate precision bearings traveling at terrific speeds is highly injurious to this costly equipment, and the exclusion of these elements is absolutely essential to the maintenance of perfect alignment. To achieve these desired results, our “Peerless” oiler has special exclusive features.



Model 98

Made Only in No. 1 Size, ⅞” P.T. (¼” P.T. Optional)