

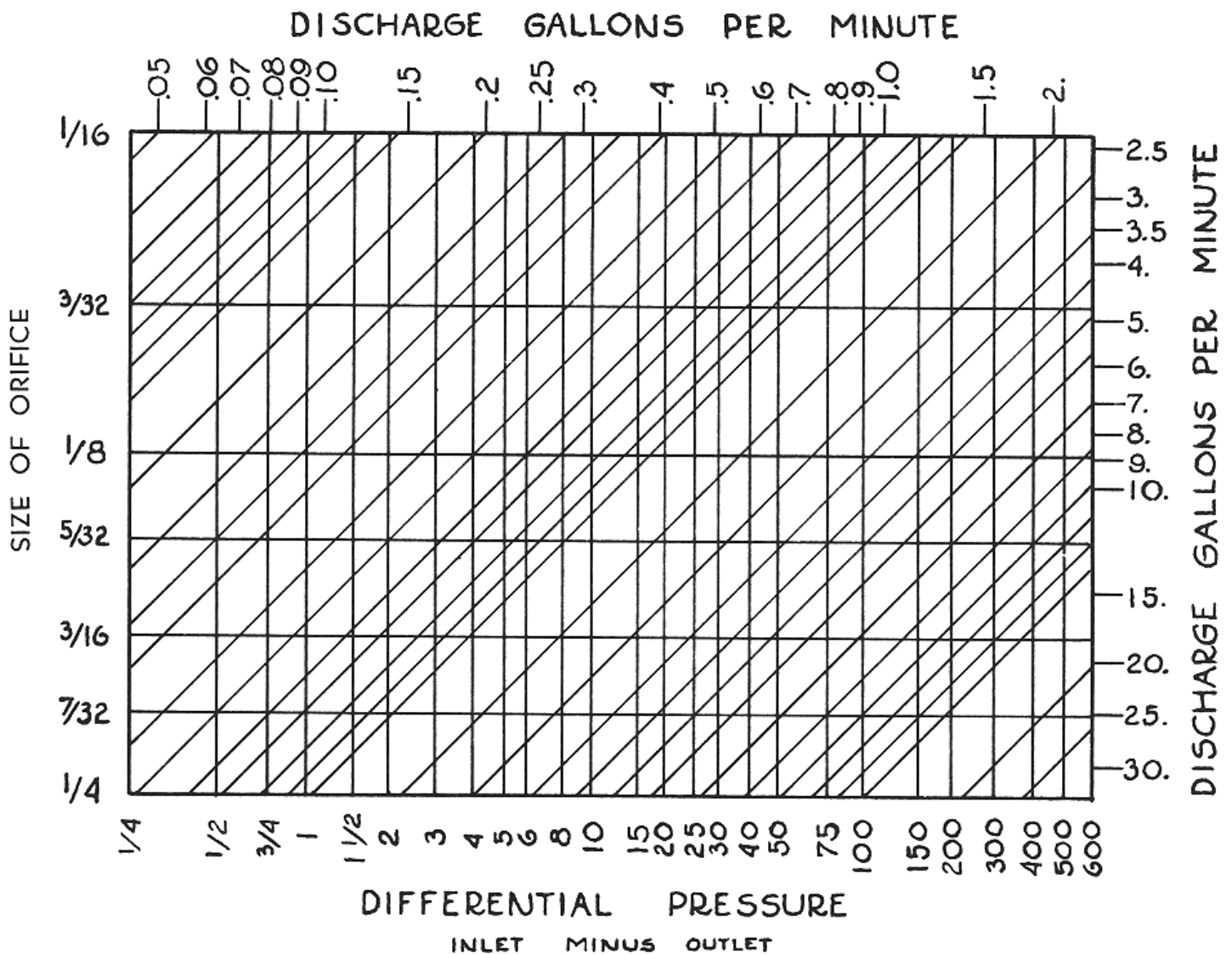
## SOLENOID VALVES

4707 Massachusetts Ave. - P.O. Box 18128  
 Indianapolis, Indiana 46218-0128  
 Ph: 1-800-63 GOULD Fx: (317) 547-5234  
 Web: <http://www.gouldvalve.com>  
 E-mail: [gouldvalve@gouldvalve.com](mailto:gouldvalve@gouldvalve.com)

## CAPACITY CHARTS

*See Individual Bulletins for CV Factors*

### WATER CAPACITY FOR FRACTIONAL ORIFICES



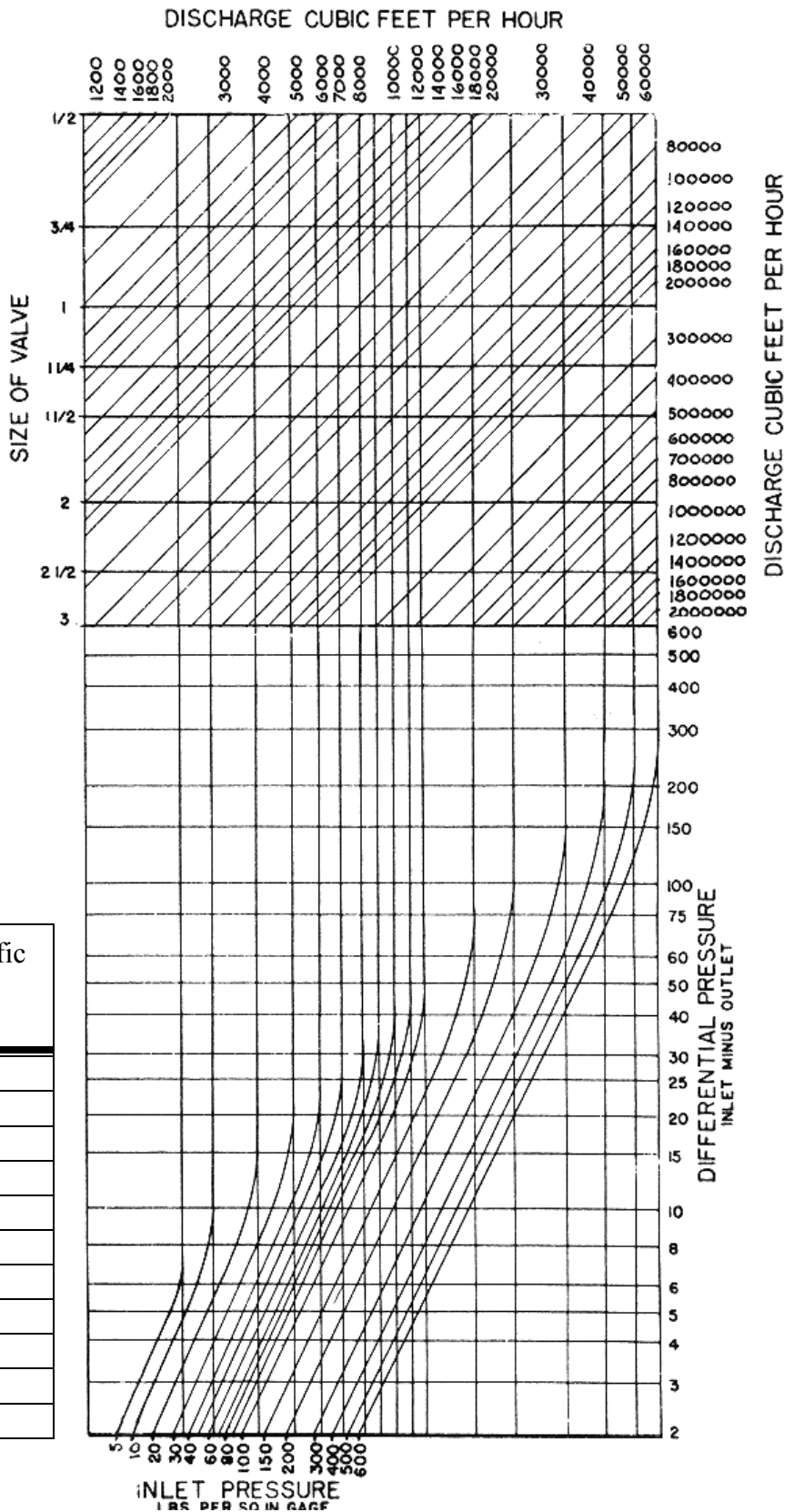
## AIR AND GAS CAPACITY CHART FOR GOULD VALVES

To Determine Capacity:

- 1> Locate differential pressure on scale at right of chart.
- 2> From this point cross horizontally to the proper inlet pressure curve.
- 3> Move vertically from this intersection to the horizontal line indicating valve size.
- 4> The diagonal line at this intersection indicates maximum valve capacity.

To Determine Valve Size:

- 1> Find the intersection of the differential pressure line and inlet pressure curve.
- 2> Move vertically to the diagonal line of desired capacity.
- 3> The horizontal line at this intersection indicates proper valve size.



To correct capacity for gases with specific gravity other than 1.0, multiply by the following factors.

Specific Gravity	Factor
.6	1.29
.7	1.20
.8	1.12
.9	1.05
1.0	1.00
1.1	0.95
1.2	0.91
1.3	0.88
1.4	0.85
1.5	0.82

# LIQUID CAPACITY FOR GOULD VALVES

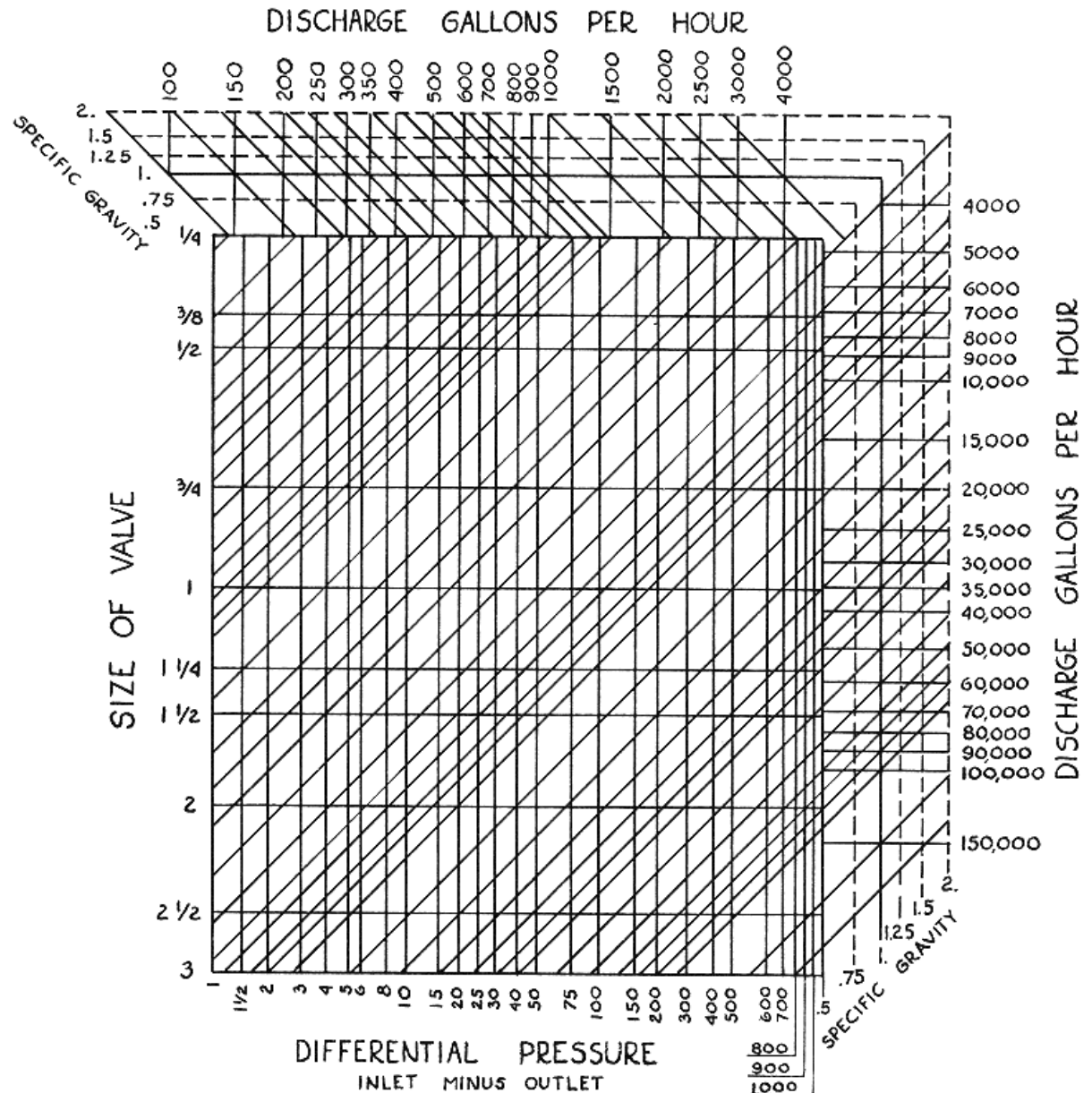
CONVERSION TABLE	
Deg. API	Sp. Gr. 60°/60°F
10	1.0000
12	0.9861
14	0.9725
16	0.9593
18	0.9465
20	0.9340
22	0.9218
24	0.9100
26	0.8984
28	0.8872
30	0.8762
32	0.8655
34	0.8550
36	0.8448
38	0.8348
40	0.8250
42	0.8156
44	0.8062
46	0.7972
48	0.7882
50	0.7796
52	0.7710
54	0.7628
56	0.7547
58	0.7467
60	0.7389
62	0.7313
64	0.7237
66	0.7165
68	0.7093
70	0.7022
72	0.6953
74	0.6886
76	0.6819
78	0.6754
80	0.6690
82	0.6628
84	0.6566
86	0.6506
88	0.6446
90	0.6388
92	0.6330
94	0.6275
96	0.6220
98	0.6165
100	0.6112

To Determine Capacity of Valve:

- 1> Locate differential pressure at bottom of chart.
- 2> Move vertically to horizontal line indicating valve size.
- 3> Follow diagonal line from this point to specific gravity lines at the top or right.
- 4> Capacity is shown at the intersection of the specific gravity and diagonal lines.

To Determine Valve Size for Given Capacity:

- 1> Locate intersection of desired capacity and specific gravity at the top or right.
- 2> Follow diagonal line from this intersection to vertical differential pressure line.
- 3> The horizontal line at this point indicates valve size.



Notes:

The diagonal lines indicating capacity change direction 90° at top of chart at 0.5 specific gravity.

For hydraulic oil (viscosity 105 SSU @ 100°F) multiply discharge by 0.6 to obtain corrected capacity while using Specific gravity of 1.0.

# STEAM CAPACITY CHART FOR GOULD VALVES

To Determine Capacity:

- 1> Locate differential pressure on scale at right of chart.
- 2> From this point cross horizontally to the proper inlet pressure curve.
- 3> Move vertically from this intersection to the horizontal line indicating valve size.
- 4> The diagonal line at this intersection indicates maximum valve capacity.

To Determine Valve Size:

- 1> Find the intersection of the differential pressure line and inlet pressure curve.
- 2> Move vertically to the diagonal line of desired capacity.
- 3> The horizontal line at this intersection indicates proper valve size.

