FLOW MEASURING DEVICES AND CONTROLS

A Unit of the IDEX Corporation

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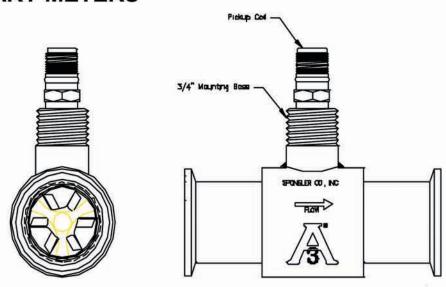


TITLE	Rev.	File/Date	Author	Apprv. By	Released
Meter Design Reference Information	. " ! !	6/11/02	DDB		

The material presented is intended for design reference only. Consult applicable pressure codes for actual operating pressures.

I. LOW PRESSURE FITTINGS-

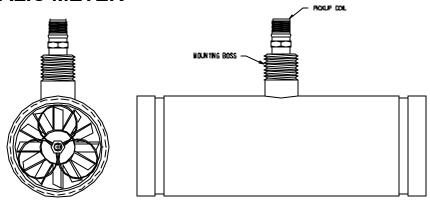
A. SANITARY METERS



SIZE	END CON	OAL	OD	OPERATING PRESS
1/2"	1/2"	4 "	1 1/4"	1,500psi
5/8"	3/4"	4"	1 1/4"	1,500psi
3/4"	1 "	5"	2 1/16"	1000psi
1"	1"	5"	2 1/16"	1000psi
1 1/4"	1 1/2"	5"	2 1/16"	600psi
1 1/2"	1 1/2"	5"	2 1/16"	600psi
2"	2"	6"	2 9/16"	550psi
2 1/2"	2 1/2"	7 1/2"	3 3/64"	450psi
3"	3"	9 1/2"	3 37/64"	350psi

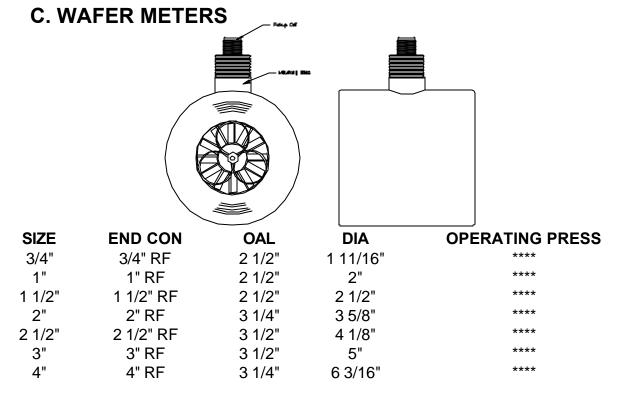
Service ratings are based on hydrostatic tests using standard molded BUNA-N gaskets and 304 SS Heavy Duty Clamps.

B. VICTUALIC METER



SIZE	END CONN	OAL	OD	OPERATING PRESS
2 1/2"	CUT GROOVE	7"	2 7/8"	1,000psi
3"	CUT GROOVE	10"	3 1/2"	1,000psi
4"	CUT GROOVE	12"	4 1/2"	1,000psi
6"	CUT GROOVE	14"	6 5/8"	1,000psi
8"	CUT GROOVE	16"	8 5/8"	800psi
10"	CUT GROOVE	20"	10 3/4"	800psi

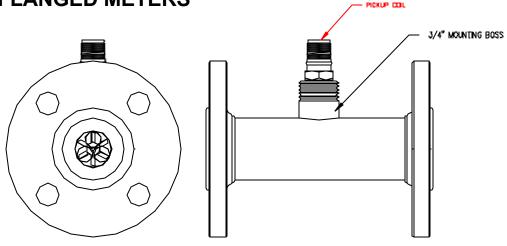
The pressures listed above are based on using standard couplings.



RF indicates raised face, wafer meters can mate to 150# through 2500# flanges. Installation options: Alignment rings; Bored mating flanges.

^{****}Operating Pressure is based on the flanges used. (See page 3)





SIZE	END CON	OAL	OD	OPERATING PRESS
1/2"	1/2"	5"	3 1/2"	***
5/8"	1/2"	5 1/2"	3 1/2"	***
3/4"	3/4"	5 1/2"	3 7/8"	***
1"	1"	5 1/2"	4 1/4"	***
1 1/4"	1 1/4"	6"	4 5/8"	***
1 1/2"	1 1/2"	6"	5"	***
2"	2"	6 1/2"	6"	***
2 1/2"	2 1/2"	7"	7"	***
3"	3"	10"	7 1/2"	***
4"	4"	12"	9"	***
5"	5"	14"	10"	***
6"	6"	14"	11"	***
8"	8"	16"	13 1/2"	***
10"	10"	20"	16"	***
12"	12"	24"	19"	***

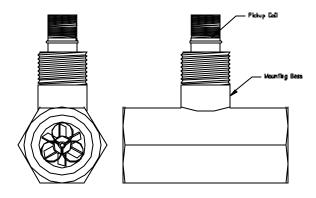
^{****}Operating Pressure is based on the flanges used.

Flanges range from 150#-2500# in the following styles: Flat face, Raised face, and Ring joint. (Overall lengths & pressure ratings vary from the list above for 1500#-2500#, consult factory).

Flanges @ 100° F

	Carbon Steel	Stainless Steel
SIZE	Max PSI	Max PSI
150# RF	285	275
300# RF	740	720
600# RF	1480	1440
900# RF	2220	2160
1500# RF	3705	3600
2500# RF	6170	6000

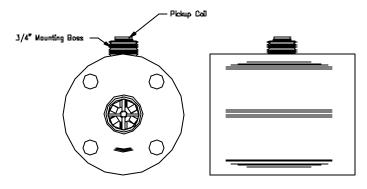
E. FEMALE NPT METERS



SIZE	END CON	OAL	OD	OPERATING PRESS
1/2"	1/2" FNPT	3.670"	1 1/8"	5,000psi
5/8"	5/8" FNPT	3.860"	1 1/8"	5,000psi
3/4"	3/4" FNPT	4.500"	1 5/8"	4,000psi
1"	1" FNPT	4.500"	1 5/8"	3,000psi
1 1/4"	1 1/4" FNPT	5.563"	2 1/8"	2,500psi
1 1/2"	1 1/2" FNPT	6.000"	2 1/8"	2,000psi
2"	2" FNPT	7.750"	2 3/4"	1,500psi

Operating Pressure is based on 304 SS, Tensile strength of 75,000psi and a satefy factor of 4:1 (316 SS is slightly higher)

F. CORROSIVE SERIES FLANGED METERS



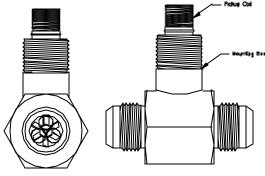
SIZE	END CON	OAL	OD	OPERATING PRESS
1/2"	1/2" 150# RF	5"	3 1/2"	150psi
5/8"	3/4" 150# RF	5 1/2"	3 7/8"	150psi
3/4"	3/4" 150# RF	5 1/2"	3 7/8"	150psi
1"	1" 150# RF	5 1/2"	4 1/4"	150psi
1 1/4"	1 1/4" 150# RF	6"	4 5/8"	150psi
1 1/2"	1 1/2" 150# RF	6"	5"	150psi
2"	2" 150# RF	6 1/2"	6"	150psi
2 1/2"	2 1/2" 150# RF	7"	7"	150psi
3"	3" 150# RF	10"	7 1/2"	150psi
4"	4" 150# RF	14"	9"	150psi

Flanged ends are in accordance with ANSI B16.5. Operating Pressure is based on tensile strength of material.

All materials are available as solid body construction except for 1 1/2"-4" CPVC. (Schedule pipe and flanges are used).

II. MEDIUM PRESSURE

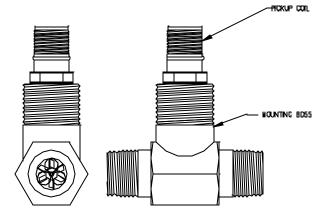
A. AN FLARE METERS



SIZE	END CON	OAL	DIA	OPERATING PRESS
1/2"	3/4"-16	2 9/16"	1 1/8"	6,000psi
5/8"	7/8"-14	2 3/4"	1 1/8"	6,000psi
3/4"	1 1/6"-12	3 1/4"	1 5/8"	5,500psi
1"	1 5/16"-12	3 1/2"	1 5/8"	4,500psi
1 1/4"	1 5/8"-12	3 7/8"	1 7/8"	4,000psi
1 1/2"	1 7/8"-12	4 3/8"	2 1/8"	3,000psi
2"	2 1/2"-12	4 3/4"	2 3/4"	2,500psi

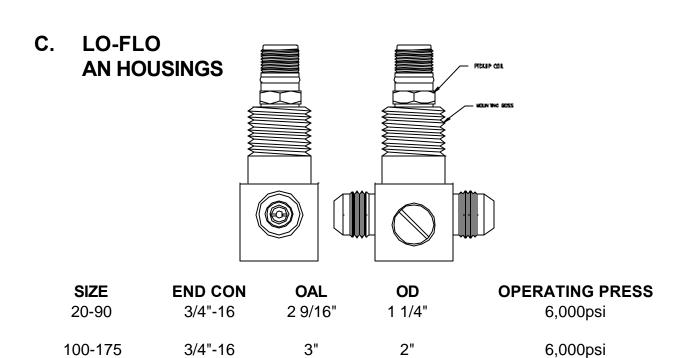
Operating Pressure is based on 304 SS, Tensile strength of 75,000psi and a safety factor of 4:1. (316 SS is slightly higher)

B. MALE NPT METERS



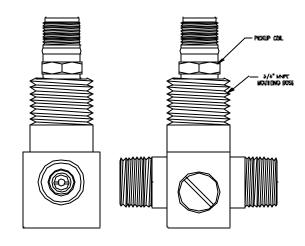
SIZE	END CON	OAL	OD	OPERATING PRESS
1/2"	1/2" MNPT	3"	1 1/8"	5,000psi
5/8"	1/2" MNPT	3"	1 1/8"	5,000psi
3/4"	3/4" MNPT	3 1/4"	1 5/8"	4,000psi
1"	1" MNPT	3 1/2"	1 5/8"	3,000psi
1 1/4"	1 1/4" MNPT	3 7/8"	1 7/8"	2,500psi
1 1/2"	1 1/2" MNPT	4 3/8"	2 1/8"	2,000psi
2"	2" MNPT	4 3/4"	2 3/4"	1,500psi
2 1/2"	2 1/2" MNPT	5 1/8"	3 1/4"	1,500psi
3"	3" MNPT	10"	3 1/2"	1,250psi

Operating Pressure is based on 304 SS, Tensile strength of 75,000psi and a safety factor of 4:1. (316 SS is slightly higher)



Operating Pressure is based on 304 SS, Tensile strength of 75,000psi and a safety factor of 4:1 (316 SS is slightly higher)

D. LO-FLO NPT HOUSINGS

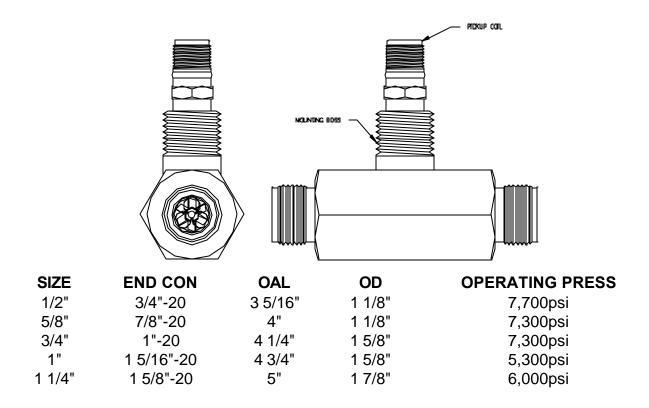


SIZE	END CON	OAL	OD	OPERATING PRESS
20-90	1/2" MNPT	2 9/16"	1 1/4"	5,000psi
100-175	1/2" MNPT	3"	2"	5,000psi

Operating Pressure is based on 304 SS, Tensile strength of 75,000psi and a safety factor of 4:1. (316 SS is slightly higher)

All data is subject to change without notice.

III. HIGH PRESSURE METERS

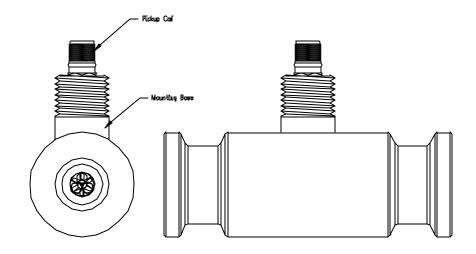


Operating pressures listed above are based on the endfitting.

Tubing pressures are not rated the same as the endfittings, use the following formula to calculate the operating pressure:

$W/P = W2 \times TS$ divided by OD (divided by 4)

W/P: Working pressure. W2: Wall thickness times 2. TS: Tensile strength (75,000psi). OD: Outside diameter of tubing.



SIZE	END CON	OAL	OD	OPERATING PRESS
1/2"	1GR5	5"	2"	16,000psi
5/8"	1GR5	5"	2"	16,000psi
3/4"	1GR7	5 1/2"	2"	8,000psi
1"	1GR11	5 1/2"	2"	4,000psi
1 1/4"	1 1/2GR14	6"	3 1/8"	5,500psi
1 1/2"	1 1/2GR14	6"	3 1/8"	5,500psi
2"	2GR20	6"	3 5/8"	4,500psi
2 1/2"	2 1/2GR25	7"	5"	5,500psi
3"	3GR27	10"	5"	3,000psi
4"	4GR40	12"	6"	2,000psi

End connections listed are SCH 40, other schedules are available for higher pressure ratings. Operating pressure must be specified to determine end connection size and rating.

All data is subject to change without notice.