

DIRECT READ ROTAMETERS

FLD Series
Starts at
\$109



- ✓ Direct Read Rotameters for Air, Water, N₂, H₂, CO₂, Ar, He, and O₂
- ✓ Rib-Guided or Fluted Metering Tubes Facilitate Stable, Accurate Readings
- ✓ Magnifier Lens in Front Shields to Enhance Reading Resolution
- ✓ Interchangeability of Flow Tubes and Floats
- ✓ Ease of Installation and Exchange of Flow Tube
- ✓ Simple Means of Panel Mounting

Designed for direct read flow rates, the FLD Series rotameter is a precision instrument embodying the inherent simplicity, versatility and economy of the classical rotameter. It is particularly suitable for metering carrier gases in chromatography, indicating and controlling gases in manufacturing processes, liquid and gas measurement in laboratories, pilot plants, flow and level indicating, etc. Shipped completely assembled, flow meters include standard mounting fittings in a choice of materials, side plates, thick protective magnifying front shield and back plate, built-in control



FLDA3220ST, \$109, shown smaller than actual size.

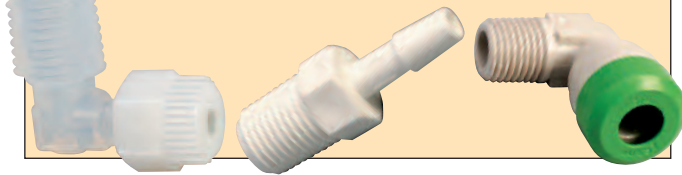
FLDA3419G, \$160, shown smaller than actual size.

valve, and flow tubes. Panel mounting style is convertible to bench mounting through the use of the optional acrylic tripod, FLTR-1. The tripod has a built-in spirit leveler and leveling screws.

Meters come with built-in 6 turn needle valves, high precision metering valves with “non-rising stems” 16 turn, or with no valves. The higher cost of the high resolution valves is justified whenever high sensitivity control and resolution are desirable—particularly in conjunction with metering tubes of very low flow rates. Generally, for gas metering it

is recommended that valves are positioned at inlets (bottom) for liquids valves may be positioned either at inlets or outlets (top). For vacuum services, valves must be mounted at outlets. If unspecified at the time of ordering, meters will be shipped with valves mounted at the inlets.

Many fittings of various materials and styles are available.
See pages T-36 to T-80 or visit omega.com



MOST POPULAR MODELS HIGHLIGHTED!

Aluminum Frame Air (150 mm)		316 SS Frame Air (150 mm)		Max Flow	Unit
Model No.	Price	Model No.	Price		
FLDA3401C	\$160	FLDA3501C	\$273	2.5	scfh
FLDA3402G	160	FLDA3502G	273	5	scfh
FLDA3403G	160	FLDA3503G	273	8.25	scfh
FLDA3404ST	160	FLDA3504ST	273	10	scfh
FLDA3405ST	160	FLDA3505ST	273	16.5	scfh
FLDA3406C	160	FLDA3506C	273	23	scfh
FLDA3407G	170	FLDA3507G	283	55	scfh
FLDA3408ST	170	FLDA3508ST	283	90	scfh
FLDA3409ST	170	FLDA3509ST	283	94	scfh
FLDA3410S	175	FLDA3510S	288	1	scfm
FLDA3411ST	170	FLDA3511ST	283	1.5	scfm
FLDA3412C	160	FLDA3512C	273	1.3	L/min
FLDA3413ST	160	FLDA3513ST	273	1.8	L/min
FLDA3414G	160	FLDA3514G	273	2.5	L/min
FLDA3415G	160	FLDA3515G	273	4	L/min
FLDA3416S	160	FLDA3516S	273	4.5	L/min
FLDA3417ST	160	FLDA3517ST	273	4.8	L/min
FLDA3418S	160	FLDA3518S	273	5	L/min
FLDA3419G	160	FLDA3519G	273	10	L/min
FLDA3420C	160	FLDA3520C	273	10	L/min
FLDA3421ST	160	FLDA3521ST	273	17	L/min
FLDA3422G	170	FLDA3522G	283	23	L/min
FLDA3425S	160	FLDA3525S	273	25	mL/min
FLDA3423ST	170	FLDA3523ST	283	42	mL/min
FLDA3426S	160	FLDA3526S	273	52	mL/min
FLDA3424C	170	FLDA3524C	283	60	mL/min
FLDA3427C	160	FLDA3527C	273	75	mL/min
FLDA3428ST	160	FLDA3528ST	273	100	mL/min
FLDA3429C	160	FLDA3529C	273	100	mL/min
FLDA3430ST	160	FLDA3530ST	273	150	mL/min
FLDA3431ST	160	FLDA3531ST	273	200	mL/min
FLDA3432G	160	FLDA3532G	273	300	mL/min
FLDA3433S	160	FLDA3533S	273	500	mL/min
FLDA3434G	160	FLDA3534G	273	800	mL/min

To Order (Specify Model Number)

Aluminum Frame Air (65 mm)		316 SS Frame Air (65 mm)		Max Flow	Units
Model No.	Price	Model No.	Price		
FLDA3201C	\$109	FLDA3301C	\$218	2.2	scfh
FLDA3202G	109	FLDA3302G	218	6	scfh-
FLDA3203ST	109	FLDA3303ST	218	10	scfh
FLDA3204ST	109	FLDA3304ST	218	18	scfh
FLDA3205ST	109	FLDA3305ST	218	25	scfh
FLDA3206ST	109	FLDA3306ST	218	50	scfh
FLDA3207ST	119	FLDA3307ST	228	90	scfh
FLDA3208C	119	FLDA3308C	228	150	scfh
FLDA3209C	119	FLDA3309C	218	0.6	scfm
FLDA3210G	109	FLDA3310G	218	1	L/min
FLDA3211G	109	FLDA3311G	218	1.15	L/min
FLDA3212ST	109	FLDA3312ST	218	2	L/min
FLDA3213ST	109	FLDA3313ST	218	4	L/min
FLDA3214G	109	FLDA3314G	218	5	L/min
FLDA3215ST	109	FLDA3315ST	218	10	L/min
FLDA3216ST	119	FLDA3316ST	228	16	L/min
FLDA3217ST	109	FLDA3317ST	218	25	L/min
FLDA3218ST	119	FLDA3318ST	228	40	L/min
FLDA3219G	109	FLDA3319G	218	7	mL/min
FLDA3220ST	109	FLDA3320ST	218	50	mL/min
FLDA3221ST	109	FLDA3321ST	218	75	mL/min
FLDA3222G	109	FLDA3322G	218	100	mL/min
FLDA3223ST	109	FLDA3323ST	218	130	mL/min
FLDA3224C	109	FLDA3324C	218	250	mL/min
FLDA3225C	109	FLDA3325C	218	500	mL/min
FLDA3226G	109	FLDA3326G	218	1000	mL/min

Argon (65 mm) 316 SS Frame				Carbon Dioxide (65 mm) Stainless Steel			
Model No.	Price	Max Flow	Units	Model No.	Price	Max Flow	Units
FLDAR3301G	\$218	2.5	scfh	FLDC3301G	\$218	1	L/min
FLDAR3302ST	218	10	scfh	FLDC3302G	218	6	L/min
FLDAR3303ST	218	22	scfh	FLDC3303ST	218	10	L/min
FLDAR3304G	228	50	scfh	FLDC3304ST	228	35	L/min
FLDAR3305S	218	1000	mL/min	FLDC3305ST	218	20	mL/min
Argon (150 mm) 316 SS Frame				Carbon Dioxide (150 mm) Stainless Steel			
Model No.	Max Price	Flow	Units	Model No.	Price	Max Flow	Units
FLDAR3501C	\$273	2	L/min	FLDC3501G	\$273	100	mL/min
FLDAR3502ST	273	15	L/min	FLDC3502ST	283	300	mL/min
FLDAR3503S	288	25	L/min	FLDC3503S	288	10	L/min
FLDAR3504C	273	325	mL/min				
FLDAR3505G	273	33	mL/min				

Ordering Examples: FLDA3212ST, 65 mm rotameter, 6 turn valve, aluminum frame, 316 stainless steel float, range 2 LPM air, \$109.
FLDC3303ST, 65 mm rotameter, 6 turn valve, 316 stainless steel frame, 316 stainless steel float, range 10 LPM carbon dioxide, \$218.

SPECIFICATIONS

Standard Accuracy: ±5% of full scale (FS)

Repeatability: ±0.25%

Useful Flow Range: 10:1 minimum

Maximum Operating Pressure: 200 psig/13.8 bars

Maximum Operating Temperature: 121°C (250°F)

Construction

Flow Tubes: Heavy walled borosilicate glass

Floats: Glass, red sapphire, 316 stainless steel, carboly and tantalum

Choice of Mounting Fittings in Contact with Fluids:

Aluminum, black anodized or 316 stainless steel

Side Panels: Aluminum, black anodized

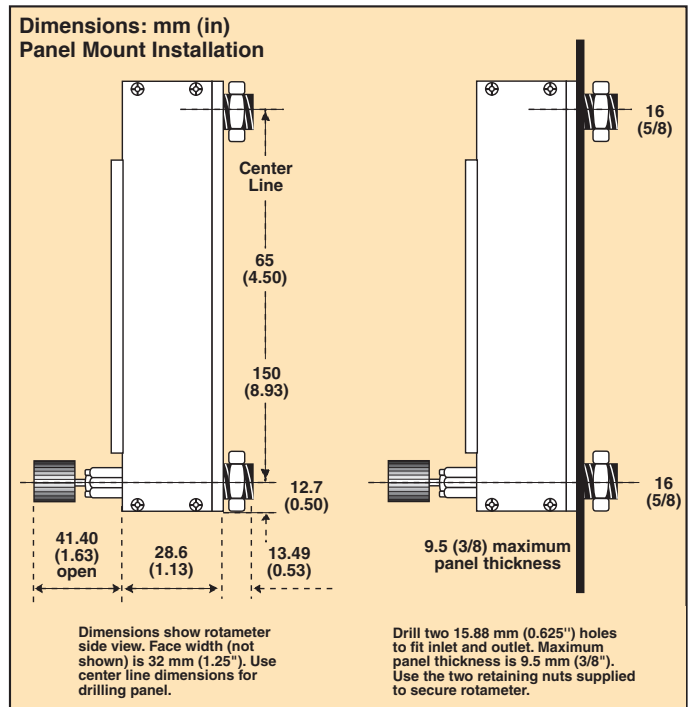
Front Shield: Polycarbonate resin with longitudinal magnifier lens for enhanced reading resolution

Back Plate: 1/8" thick white acrylics

O-Rings and Packing: Buna O-rings in aluminum/brass model. FKM O-rings in stainless steel meters

Optional: Perfluoroelastomer and EPR

Connections: 1/2 NPT female inlet and outlet connections



To Order (Specify Model Number)

Aluminum Frame Water (65 mm)		316 SS Frame Water (65 mm)		Max Flow	Units
Model No.	Price	Model No.	Price		
FLDW3201S	\$124	FLDW3301S	\$233	1	L/min
FLDW3202ST	119	FLDW3302ST	228	1.2	L/min
FLDW3203ST	109	FLDW3303ST	218	3	L/hr
FLDW3204G	109	FLDW3304G	218	0.5	mL/min
FLDW3205ST	109	FLDW3305ST	218	6	mL/min
FLDW3206G	109	FLDW3306G	218	25	mL/min
FLDW3207ST	109	FLDW3307ST	218	60	mL/min
FLDW3208ST	109	FLDW3308ST	218	115	mL/min
FLDW3209ST	109	FLDW3309ST	218	150	mL/min
FLDW3210G	119	FLDW3310G	228	250	mL/min
FLDW3211G	119	FLDW3311G	228	500	mL/min
FLDW3212ST	109	FLDW3312ST	218	750	mL/min
Aluminum Frame Water (150 mm)		316 SS Frame Water (150 mm)		Max Flow	Units
Model No.	Price	Model No.	Price		
FLDW3401C	\$170	FLDW3501C	\$283	29	gph
FLDW3402S	175	FLDW3502S	288	0.22	gpm
FLDW3403C	170	FLDW3503C	283	0.45	gpm
FLDW3404ST	170	FLDW3504ST	283	1.2	L/min
FLDW3405T	175	FLDW3505T	288	2	L/min
FLDW3406S	160	FLDW3506S	273	1	mL/min
FLDW3407S	160	FLDW3507S	273	10	mL/min
FLDW3408ST	160	FLDW3508ST	273	20	mL/min
FLDW3409G	160	FLDW3509G	273	50	mL/min
FLDW3410G	160	FLDW3510G	273	60	mL/min
FLDW3411G	160	FLDW3511G	273	100	mL/min
FLDW3412C	160	FLDW3512C	273	200	mL/min
FLDW3413ST	160	FLDW3513ST	273	500	mL/min

MOST POPULAR MODELS HIGHLIGHTED!

Helium (65 mm) 316 SS Frame			
Model No.	Price	Max Flow	Units
FLDHE3301S	\$218	65	mL/min
FLDHE3302G	218	120	mL/min
Helium (150 mm) 316 SS Fram			
Model No.	Price	Max Flow	Units
FLDHE3501S	\$273	1.25	scfh
FLDHE3502C	273	5	L/min
FLDHE3503ST	273	40	L/min
FLDHE3504G	273	100	mL/min
FLDHE3505C	273	500	mL/min
FLDHE3506G	273	1500	mL/min
Hydrogen (65 mm) 316 SS Frame			
Model No.	Price	Max Flow	Units
FLDH3301C	\$218	1.5	L/min
FLDH3302G	218	3.5	L/min
FLDH3303G	218	6	L/min
FLDH3304ST	218	42	L/min
FLDH3305G	218	35	mL/min
FLDH3306ST	218	100	mL/min
FLDH3307S	218	150	mL/min
FLDH3308G	218	600	mL/min
Hydrogen (150 mm) 316 SS Frame			
Model No.	Price	Max Flow	Units
FLDH3501S	\$288	225	scfh
FLDH3502G	273	100	mL/min

Ordering Examples: FLDW3401C, 150 mm rotameter, 6 turn valve aluminum frame, carboly float, range 29 GPH water, \$170. FLDHE3504G, 150 mm rotameter, 6 turn valve, 316 stainless steel frame, glass float, range 100 ml/min helium, \$273.

MOST POPULAR MODELS HIGHLIGHTED!




FLDA3419G, \$160, shown smaller than actual size.

To Order (Specify Model Number)

Nitrogen (65 mm) 316 SS Frame			
Model No.	Price	Max Flow	Units
FLDN3301ST	\$218	12	L/min
FLDN3302G	218	6	mL/min
FLDN3303ST	218	50	mL/min
FLDN3304S	218	60	mL/min
FLDN3305G	218	120	mL/min
FLDN3306S	218	200	mL/min
Nitrogen (150 mm) 316 SS Frame			
Model No.	Price	Max Flow	Units
FLDN3501ST	\$283	1.6	scfm
FLDN3502G	273	2	L/min
FLDN3503G	273	100	mL/min
FLDN3504C	273	200	mL/min
FLDN3505C	273	300	mL/min
FLDN3506S	273	500	mL/min
Oxygen (65 mm) 316 SS Frame			
Model No.	Price	Max Flow	Units
FLDO3301G	\$218	1	L/min
FLDO3302ST	218	4	L/min
FLDO3303ST	218	8	L/min
FLDO3304ST	228	15	L/min
FLDO3305G	218	50	mL/min
FLDO3306ST	218	300	mL/min
FLDO3307ST	218	500	mL/min
Oxygen (150 mm) 316 SS Frame			
Model No.	Price	Max Flow	Units
FLDO3501S	\$273	1	L/min
FLDO3502S	273	5	L/min
FLDO3503C	273	10	L/min
FLDO3504ST	273	16.50	L/min
FLDO3505C	283	58	L/min
FLDO3506ST	283	250	mL/min
FLDO3507S	273	400	mL/min

Accessories

Model No.	Price	Description
FLTR-1	\$48	Tripod for one rotameter
FLTR-2	48	Tripod for two rotameters
FLTR-3	48	Tripod for three rotameters

Reference Book:
 Calibration: A Technicians Guide,
OP-20, \$79
 See Section Y For Additional Books 

Comes complete with operator's manual.

"G" suffix denotes glass float, "ST" suffix denotes 316SS float, "C" suffix denotes carbonyl float and "SA" denotes red sapphire float.

For units without valve, add suffix "-NV" to model number and subtract \$10 for aluminum; subtract \$13 for for 316SS.

For oxygen cleaning add "-02CLEAN" to model number and add \$125 to price.

Note: Minimum flow rate is 10% of the maximum rate shown.

For 16 turn, high resolution non-rising stem valve for 150 mm rotameters, add suffix "-HRV" to model number and add \$60 for aluminum units and \$120 for stainless steel units.

NIST traceable calibration not available.

Ordering Examples: **FLDN3501ST**, 150 mm rotameter, 6 turn valve stainless steel unit, with 316SS float, range of 1.6 scfm nitrogen, **\$283.** **FLDO3501S**, 150 mm rotameter, 6 turn valve stainless steel unit with sapphire float range of 1 LPM oxygen, **\$273.**



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