

FLOW METERS

Economy

Acrylic Flow Meters



Description: Ideal for non-critical applications, the economy purge meter is widely accepted as a practical, inexpensive approach to regulating low flows of non-corrosive gases. Each meter's tube has a direct reading for the desired gas.

These purge meters are available with and without a control valve.

Design Features

- Easy to read English and metric scales
- Purge meters are offered with or without built-in needle valves
- Easy disassembly and assembly for cleaning

Specifications

Maximum Pressure	100 psig
Maximum Temperature	65C
Accuracy	+/- 5%
Inlet/Outlet Connections	1/8" NPT female

Materials

Meter Blocks	Acrylic
Float Materials	Black Glass, Stainless Steel; Carboly
O-ring Seals	Viton with Stainless Steel; Buna-N with brass
Fittings	Brass or Stainless Steel

Ordering Information

Product Number	Valve	Material	Float Material	Flow Range Air @ 14.7 psig and 70F	
				LPM	SCFH
Y20-A37MM12A	No	Brass	Glass	1.4	2.8
Y20-A37MM12VA	Yes	Brass	Glass	1.4	2.8
Y20-A37MM13A	No	Brass	Stainless Steel	2.75	5.5
Y20-A37MM13VA	Yes	Brass	Stainless Steel	2.75	5.5
Y20-A37MM14A	No	Brass	Carboly	3.5	7.0
Y20-A37MM14VA	Yes	Brass	Carboly	3.5	7.0
Y20-A37MM15A	No	Brass	Glass	8.5	18.0
Y20-A37MM15VA	Yes	Brass	Glass	8.5	18.0
Y20-A37MM16A	No	Brass	Stainless Steel	16.0	32.5
Y20-A37MM16VA	Yes	Brass	Stainless Steel	16.0	32.5
Y20-A37MM17A	No	Brass	Carboly	22.0	45.0
Y20-A37MM17VA	Yes	Brass	Carboly	22.0	45.0
Y20-A37MM18A	No	Brass	Stainless Steel	50.0	100.0
Y20-A37MM18VA	Yes	Brass	Stainless Steel	50.0	100.0
Y20-A37MM42A	No	Stainless Steel	Glass	1.4	2.8
Y20-A37MM42VA	Yes	Stainless Steel	Glass	1.4	2.8
Y20-A37MM43A	No	Stainless Steel	Stainless Steel	2.75	5.5
Y20-A37MM43VA	Yes	Stainless Steel	Stainless Steel	2.75	5.5
Y20-A37MM44A	No	Stainless Steel	Carboly	3.5	7.0
Y20-A37MM44VA	Yes	Stainless Steel	Carboly	3.5	7.0
Y20-A37MM45A	No	Stainless Steel	Glass	8.5	18.0
Y20-A37MM45VA	Yes	Stainless Steel	Glass	8.5	18.0
Y20-A37MM46A	No	Stainless Steel	Stainless Steel	16.0	32.5

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Ordering Information

Product Number	Valve	Material	Float Material	Flow Range	
				Air @ 14.7 psig LPM	and 70F SCFH
Y20-A37MM46VA	Yes	Stainless Steel	Stainless Steel	16.0	32.5
Y20-A37MM47A	No	Stainless Steel	Carboly	22.0	45.0
Y20-A37MM47VA	Yes	Stainless Steel	Carboly	22.0	45.0
Y20-A37MM48A	No	Stainless Steel	Stainless Steel	50.0	100.0
Y20-A37MM48VA	Yes	Stainless Steel	Stainless Steel	50.0	100.0

Ordering Information

Product Number	Valve	Material	Float Material	Flow Range	
				Nitrogen @ 14.7 psig LPM	and 70F SCFH
Y20-A37MM12N2	No	Brass	Glass	1.3	2.75
Y20-A37MM12VN2	Yes	Brass	Glass	1.3	2.75
Y20-A37MM13N2	No	Brass	Stainless Steel	2.75	5.5
Y20-A37MM13VN2	Yes	Brass	Stainless Steel	2.75	5.5
Y20-A37MM14N2	No	Brass	Carboly	3.5	7.5
Y20-A37MM14VN2	Yes	Brass	Carboly	3.5	7.5
Y20-A37MM15N2	No	Brass	Glass	8.0	16.0
Y20-A37MM15VN2	Yes	Brass	Glass	8.0	16.0
Y20-A37MM16N2	No	Brass	Stainless Steel	16.0	32.5
Y20-A37MM16VN2	Yes	Brass	Stainless Steel	16.0	32.5
Y20-A37MM17N2	No	Brass	Carboly	22.0	45.0
Y20-A37MM17VN2	Yes	Brass	Carboly	22.0	45.0
Y20-A37MM18N2	No	Brass	Stainless Steel	45.0	100.0
Y20-A37MM18VN2	Yes	Brass	Stainless Steel	45.0	100.0
Y20-A37MM42N2	No	Stainless Steel	Glass	1.3	2.75
Y20-A37MM42VN2	Yes	Stainless Steel	Glass	1.3	2.75
Y20-A37MM43N2	No	Stainless Steel	Stainless Steel	2.75	5.5
Y20-A37MM43VN2	Yes	Stainless Steel	Stainless Steel	2.75	5.5
Y20-A37MM44N2	No	Stainless Steel	Carboly	3.5	7.5
Y20-A37MM44VN2	Yes	Stainless Steel	Carboly	3.5	7.5
Y20-A37MM45N2	No	Stainless Steel	Glass	8.0	16.0
Y20-A37MM45VN2	Yes	Stainless Steel	Glass	8.0	16.0
Y20-A37MM46N2	No	Stainless Steel	Stainless Steel	16.0	32.5
Y20-A37MM46VN2	Yes	Stainless Steel	Stainless Steel	16.0	32.5
Y20-A37MM47N2	No	Stainless Steel	Carboly	22.0	45.0
Y20-A37MM47VN2	Yes	Stainless Steel	Carboly	22.0	45.0
Y20-A37MM48N2	No	Stainless Steel	Stainless Steel	45.0	100.0
Y20-A37MM48VN2	Yes	Stainless Steel	Stainless Steel	45.0	100.0

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Product Number	Valve	Material	Float Material	Flow Range Oxygen @ 14.7 psig and 70F	
				LPM	SCFH
Y20-A37MM12O2	No	Brass	Glass	1.2	2.5
Y20-A37MM12VO2	Yes	Brass	Glass	1.2	2.5
Y20-A37MM13O2	No	Brass	Stainless Steel	2.5	5.0
Y20-A37MM13VO2	Yes	Brass	Stainless Steel	2.5	5.0
Y20-A37MM14O2	No	Brass	Carboly	3.5	7.0
Y20-A37MM14VO2	Yes	Brass	Carboly	3.5	7.0
Y20-A37MM15O2	No	Brass	Glass	8.0	16.0
Y20-A37MM15VO2	Yes	Brass	Glass	8.0	16.0
Y20-A37MM16O2	No	Brass	Stainless Steel	15.0	30.0
Y20-A37MM16VO2	Yes	Brass	Stainless Steel	15.0	30.0
Y20-A37MM17O2	No	Brass	Carboly	20.0	42.5
Y20-A37MM17VO2	Yes	Brass	Carboly	20.0	42.5
Y20-A37MM18O2	No	Brass	Stainless Steel	45.0	90.0
Y20-A37MM18VO2	Yes	Brass	Stainless Steel	45.0	90.0
Y20-A37MM42O2	No	Stainless Steel	Glass	1.2	2.5
Y20-A37MM42VO2	Yes	Stainless Steel	Glass	1.2	2.5
Y20-A37MM43O2	No	Stainless Steel	Stainless Steel	2.5	5.0
Y20-A37MM43VO2	Yes	Stainless Steel	Stainless Steel	2.5	5.0
Y20-A37MM44O2	No	Stainless Steel	Carboly	3.5	7.0
Y20-A37MM44VO2	Yes	Stainless Steel	Carboly	3.5	7.0
Y20-A37MM45O2	No	Stainless Steel	Glass	8.0	16.0
Y20-A37MM45VO2	Yes	Stainless Steel	Glass	8.0	16.0
Y20-A37MM46O2	No	Stainless Steel	Stainless Steel	15.0	30.0
Y20-A37MM46VO2	Yes	Stainless Steel	Stainless Steel	15.0	30.0
Y20-A37MM47O2	No	Stainless Steel	Carboly	20.0	42.5
Y20-A37MM47VO2	Yes	Stainless Steel	Carboly	20.0	42.5
Y20-A37MM48O2	No	Stainless Steel	Stainless Steel	45.0	90.0
Y20-A37MM48VO2	Yes	Stainless Steel	Stainless Steel	45.0	90.0

Ordering Information

Product Number	Valve	Material	Float Material	Flow Range Carbon Dioxide @ 14.7 psig and 70F	
				LPM	SCFH
Y20-A37MM12CO2	No	Brass	Glass	1.1	2.1
Y20-A37MM12VCO2	Yes	Brass	Glass	1.1	2.1
Y20-A37MM13CO2	No	Brass	Stainless Steel	2.0	5.0
Y20-A37MM13VCO2	Yes	Brass	Stainless Steel	2.0	5.0
Y20-A37MM14CO2	No	Brass	Carboly	3.0	6.5
Y20-A37MM14VCO2	Yes	Brass	Carboly	3.0	6.5
Y20-A37MM15CO2	No	Brass	Glass	7.0	15.0
Y20-A37MM15VCO2	Yes	Brass	Glass	7.0	15.0
Y20-A37MM16CO2	No	Brass	Stainless Steel	12.0	25.0
Y20-A37MM16VCO2	Yes	Brass	Stainless Steel	12.0	25.0
Y20-A37MM17CO2	No	Brass	Carboly	18.0	37.5
Y20-A37MM17VCO2	Yes	Brass	Carboly	18.0	37.5
Y20-A37MM18CO2	No	Brass	Stainless Steel	35.0	80.0
Y20-A37MM18VCO2	Yes	Brass	Stainless Steel	35.0	80.0
Y20-A37MM42CO2	No	Stainless Steel	Glass	1.1	2.1

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Product Number	Valve	Material	Float Material	Flow Range Carbon Dioxide @ 14.7 psig and 70F	
				LPM	SCFH
Y20-A37MM42VCO2	Yes	Stainless Steel	Glass	1.1	2.1
Y20-A37MM43CO2	No	Stainless Steel	Stainless Steel	2.0	5.0
Y20-A37MM43VCO2	Yes	Stainless Steel	Stainless Steel	2.0	5.0
Y20-A37MM44CO2	No	Stainless Steel	Carboloy	3.0	6.5
Y20-A37MM44VCO2	Yes	Stainless Steel	Carboloy	3.0	6.5
Y20-A37MM45CO2	No	Stainless Steel	Glass	7.0	15.0
Y20-A37MM45VCO2	Yes	Stainless Steel	Glass	7.0	15.0
Y20-A37MM46CO2	No	Stainless Steel	Stainless Steel	12.0	25.0
Y20-A37MM46VCO2	Yes	Stainless Steel	Stainless Steel	12.0	25.0
Y20-A37MM47CO2	No	Stainless Steel	Carboloy	18.0	37.5
Y20-A37MM47VCO2	Yes	Stainless Steel	Carboloy	18.0	37.5
Y20-A37MM48CO2	No	Stainless Steel	Stainless Steel	35.0	80.0
Y20-A37MM48VCO2	Yes	Stainless Steel	Stainless Steel	35.0	80.0

Ordering Information

Product Number	Valve	Material	Float Material	Flow Range Argon @ 14.7 psig and 70F	
				LPM	SCFH
Y20-A37MM12AR	No	Brass	Glass	1.1	2.25
Y20-A37MM12VAR	Yes	Brass	Glass	1.1	2.25
Y20-A37MM13AR	No	Brass	Stainless Steel	2.2	5.0
Y20-A37MM13VAR	Yes	Brass	Stainless Steel	2.2	5.0
Y20-A37MM14AR	No	Brass	Carboloy	3.0	6.5
Y20-A37MM14VAR	Yes	Brass	Carboloy	3.0	6.5
Y20-A37MM15AR	No	Brass	Glass	7.0	15.0
Y20-A37MM15VAR	Yes	Brass	Glass	7.0	15.0
Y20-A37MM16AR	No	Brass	Stainless Steel	13.0	26.0
Y20-A37MM16VAR	Yes	Brass	Stainless Steel	13.0	26.0
Y20-A37MM17AR	No	Brass	Carboloy	18.0	37.5
Y20-A37MM17VAR	Yes	Brass	Carboloy	18.0	37.5
Y20-A37MM18AR	No	Brass	Stainless Steel	40.0	80.0
Y20-A37MM18VAR	Yes	Brass	Stainless Steel	40.0	80.0
Y20-A37MM42AR	No	Stainless Steel	Glass	1.1	2.25
Y20-A37MM42VAR	Yes	Stainless Steel	Glass	1.1	2.25
Y20-A37MM43AR	No	Stainless Steel	Stainless Steel	2.2	5.0
Y20-A37MM43VAR	Yes	Stainless Steel	Stainless Steel	2.2	5.0
Y20-A37MM44AR	No	Stainless Steel	Carboloy	3.0	6.5
Y20-A37MM44VAR	Yes	Stainless Steel	Carboloy	3.0	6.5
Y20-A37MM45AR	No	Stainless Steel	Glass	7.0	15.0
Y20-A37MM45VAR	Yes	Stainless Steel	Glass	7.0	15.0
Y20-A37MM46AR	No	Stainless Steel	Stainless Steel	13.0	26.0
Y20-A37MM46VAR	Yes	Stainless Steel	Stainless Steel	13.0	26.0
Y20-A37MM47AR	No	Stainless Steel	Carboloy	18.0	37.5
Y20-A37MM47VAR	Yes	Stainless Steel	Carboloy	18.0	37.5
Y20-A37MM48AR	No	Stainless Steel	Stainless Steel	40.0	80.0
Y20-A37MM48VAR	Yes	Stainless Steel	Stainless Steel	40.0	80.0

Ordering Information

Product Number	Valve	Material	Float Material	Flow Range @ 14.7 psig and 70F	
				Helium LPM	SCFH
Y20-A37MM12HE	No	Brass	Glass	2.0	4.0
Y20-A37MM12VHE	Yes	Brass	Glass	2.0	4.0
Y20-A37MM13HE	No	Brass	Stainless Steel	5.5	11.0
Y20-A37MM13VHE	Yes	Brass	Stainless Steel	5.5	11.0
Y20-A37MM14HE	No	Brass	Carboly	8.0	17.0
Y20-A37MM14VHE	Yes	Brass	Carboly	8.0	17.0
Y20-A37MM15HE	No	Brass	Glass	18.0	40.0
Y20-A37MM15VHE	Yes	Brass	Glass	18.0	40.0
Y20-A37MM16HE	No	Brass	Stainless Steel	35.0	70.0
Y20-A37MM16VHE	Yes	Brass	Stainless Steel	35.0	70.0
Y20-A37MM17HE	No	Brass	Carboly	55.0	110.0
Y20-A37MM17VHE	Yes	Brass	Carboly	55.0	110.0
Y20-A37MM18HE	No	Brass	Stainless Steel	110.0	250.0
Y20-A37MM18VHE	Yes	Brass	Stainless Steel	110.0	250.0
Y20-A37MM42HE	No	Stainless Steel	Glass	2.0	4.0
Y20-A37MM42VHE	Yes	Stainless Steel	Glass	2.0	4.0
Y20-A37MM43HE	No	Stainless Steel	Stainless Steel	5.5	11.0
Y20-A37MM43VHE	Yes	Stainless Steel	Stainless Steel	5.5	11.0
Y20-A37MM44HE	No	Stainless Steel	Carboly	8.0	17.0
Y20-A37MM44VHE	Yes	Stainless Steel	Carboly	8.0	17.0
Y20-A37MM45HE	No	Stainless Steel	Glass	18.0	40.0
Y20-A37MM45VHE	Yes	Stainless Steel	Glass	18.0	40.0
Y20-A37MM46HE	No	Stainless Steel	Stainless Steel	35.0	70.0
Y20-A37MM46VHE	Yes	Stainless Steel	Stainless Steel	35.0	70.0
Y20-A37MM47HE	No	Stainless Steel	Carboly	55.0	110.0
Y20-A37MM47VHE	Yes	Stainless Steel	Carboly	55.0	110.0
Y20-A37MM48HE	No	Stainless Steel	Stainless Steel	110.0	250.0
Y20-A37MM48VHE	Yes	Stainless Steel	Stainless Steel	110.0	250.0

Dimensions

