



Ordering Information:

Item # 873-400, 873 High Flow Reducing Regulators

- High Flow Reducing Regulator
- Hand/Spring Loaded
- 1/2 in. NPT outlet
- 1/4 in. NPT inlet
- 0 to 400 psi out









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Series Designation	873 Series
Туре	High Flow Reducing Regulator
Hand Loaded/Operated or Dome/Air	Hand/Spring Loaded
Operated	-
Maximum Rated Pressure	6000 psi
Outlet Pressure Range	0-400 psi
Outlet Pressure Rating	6000 psi
Inlet Port Size	2 ea 1/4 in. FNPT (One Inlet, One Gauge)
Outlet Port Size	1 ea 1/4 in. FNPT (Gauge), 1 ea 1/2 in.
	FNPT (Outlet)
Flow Coefficient (Cv)	0.8 (equals 0.23 in. orifice)
Outlet Pressure Variations with Inlet	10 psi rise/1000 psi inlet drop
Pressure Variations	
Leakage	Bubble Tight
Weight	1300 g
Overall Length	6.5 Inch
Round Diameter	3 Inch
Minimum Temperature	-15 °F
Body Material	Anodized Aluminum
Internal Materials	Anodized Aluminum
	Brass
	Stainless
Seal Materials	Kel-F
	Viton
Repair Kit/Service Items	979-400
Accessories	Mount Nuts: P/N 952 (Two Required













Specifications		
Product Using this Repair Kit	873-400	
	873-400-NA	
	873-400-P	
Weight	208 g	

Ordering Information : Item # 979-400, Repair Kit for 873-400 Series Regulator



Ordering Information: Item #873-400, 873 High Flow Reducing Regulators

- High Flow Reducing Regulator
- Hand/Spring Loaded
- 1/2 in. NPT outlet
- 1/4 in. NPT inlet
- 0 to 1000 psi out
- Non-vented











Specifications	
Series Designation	873 Series
Туре	High Flow Reducing Regulator
Hand Loaded/Operated or Dome/Air	Hand/Spring Loaded
Operated	
Maximum Rated Pressure	6000 psi
Outlet Pressure Range	0-1500 psi
Outlet Pressure Rating	6000 psi
Inlet Port Size	2 ea 1/4 in. FNPT (One Inlet, One Gauge)
Outlet Port Size	1 ea 1/4 in. FNPT (Gauge), 1 ea 1/2 in.
	FNPT (Outlet)
Flow Coefficient (Cv)	0.8 (equals 0.23 in. orifice)
Outlet Pressure Variations with Inlet	35 psi rise/1000 psi inlet drop
Pressure Variations	
Leakage	Bubble Tight
Weight	1300 g
Overall Length	6.5 Inch
Round Diameter	3 Inch
Minimum Temperature	-15 °F
Body Material	Anodized Aluminum
Internal Materials	Anodized Aluminum
	Brass
	Stainless
Seal Materials	Kel-F
	Viton
Repair Kit/Service Items	979-1500-NV
Accessories	Mount Nuts: P/N 952 (Two Required)



Ordering Information:

Item # 979-400, Repair Kit for 873-400 Series Regulator

Specifications	
Product Using this Repair Kit	873-1500-NV
	873-1500-NV-NA
	873-1500-NV-P
Weight	224 g



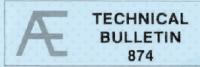












6000 PSI HIGH FLOW REDUCING REGULATOR MODEL 873

GENERAL INFORMATION

The model 873 is a piston type hand loading regulator. It utilizes a balanced poppet design for high flow and minimum effect of inlet pressure on outlet pressure. The poppet assembly is contained in a cartridge with internal filtration permitting very easy in field servicing. The low cost poppet cartridge (pictured on the opposite side of this sheet) is factory preassembled. It contains the more critical valving elements of the regulator thus eliminating in-field servicing problems. The regulator is self venting but is optionally available without the vent. This regulator design was developed for gas mixers for commercial diving where high flow, very precise pressure control and high reliability are needed. They have served this application for many years. It is available with different size sensing pistons resulting in a complete range of outlet pressures. A highly sensitive dome loaded version rated to 6000 PSI is also available.

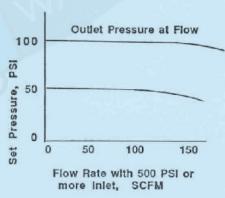
TECHNICAL SPECIFICATIONS

· Maximum inlet pressure 6000 PSI (40 MPa) Outlet pressure - from 0 to: model 873-150...... 150 PSI model 873-400 model 873-1500 400 PSI 1500 PSI model 873-5000 5000 PSI model 873-D 6000 PSI • Flow coefficient (C_V)...... 0.8 (0.23" orifice) · Rise of outlet pressure with drop of inlet pressure...... 1 PSI per 1000 PSI for model 873-150 body and cap - aluminum internals - brass, stainless seals - Buna N, nylon Fittings 1/2" NPT outlet port 1/4" NPT inlet & gauge ports · Size 3 inch dia. x 5 inch long

Aqua Environment Inc.

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TYPICAL FLOW, MODEL 873-150







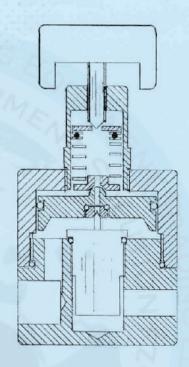




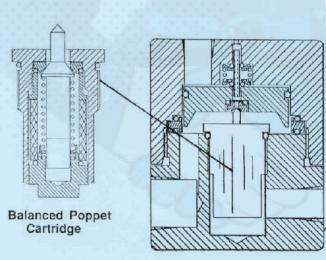
TYPICAL APPLICATIONS

- Operation of high flow, low pressure equipment such as sirens from high pressure air tanks. Here use of high pressure air eliminates dependency on electrical power in an emergency.

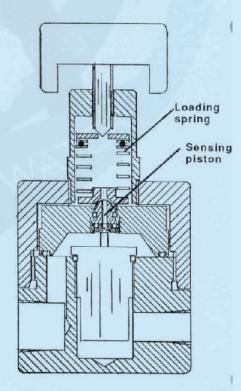
 Component testing
- · Air tank fill stations
- · Fire fighting air systems
- Instrumentation and calibration panels
- Process industry controlShipboard and off shore air and gas control
- · Aircraft service equipment
- · Electronic industry rare gas flow
- · Vehicle CNG stations
- · Precision gas mixing equipment



0 to 150 PSI model







0 to 5000 PSI model

Aqua Environment Inc.











SYNERGY INFRASTRUCTURE





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