

FLOW SWITCH

NOTE: CUSTOMER MUST SUPPLY PCBA BOARD AND PROGRAMMING

Model Q-15 is the most sensitive paddle type flow switch available. It utilizes Hall Effect technology and is programmed for the highest sensitivity.

Model Q-15 comes standard with 8 conductor modular cable and Cat 3 modular connector. Other cable/connector combinations available upon special order.

Max. flow may be five times normal flow.

Positive stop eliminates fatigue effects of turbulence, vibration and flow surge on flow detecting element.

Very low pressure drop - typically less than 1.0 psig at normal flow rate.

Small size and low profile provides easy mounting in crowded installations.

Switch employs magnetic coupling.

Send us your special requirements. We will quote a special unit to meet those requirements.

MODEL Q-15N Q-15CR



KEY FEATURES

Flow Range	0.7-590 GPM (2.6-2,233 L/m)
Working Temp	180°F (82°C) Maximum
Working Pressure	250 psi (1724 kPa)
Process Connection	3/4" NPT
Electrical Contacts	SPNO .25A (250 mA)
Enclosure	NEMA 4 / IP 66

TYPICAL USES

Monitoring flow of coolant supplied to:

Brakes and Clutches	Emergency Wash-Down Showers
Computer Systems	Marine and Stationary Engines
Diodes, SCRs, Triacs, etc.	RF and Radar Transmitters
Electromagnets	Spot welders
Fire Sprinkler Flow Alarms	Transformers
Lasers	Vacuum Systems

In Chemical Processing:

Fluid Blending Systems	Liquid Transfer
Heat Transfer Fluids	Monitor Filter Clogging
Liquid Scrubbers	Starting back-up pumps
Monitoring pump output, valve position, systems flow status	

In Water Treatment:

Irrigation Systems	Salt and Fresh Water Systems
--------------------	------------------------------

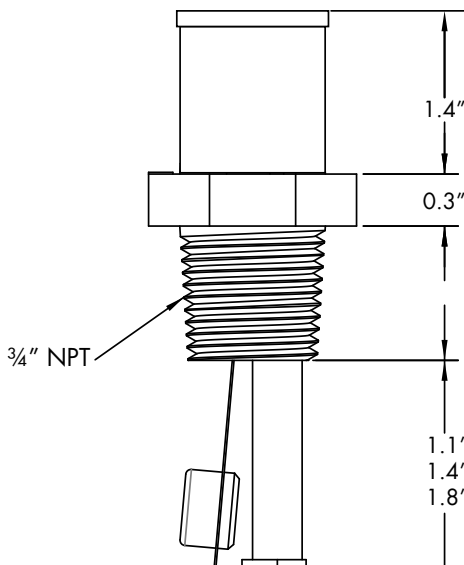
≈ TYPICAL WORKING FLUIDS

For use in a broad spectrum of industrial fluids, such as:

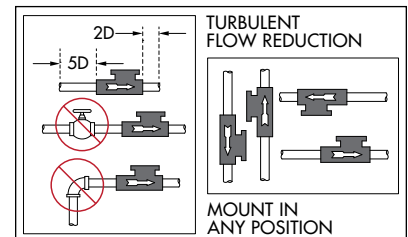
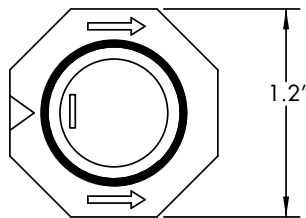
Cooling Tower Water	Water (saltwater, pure, tap, etc.)
Glycol Solutions	Lubricating Oils
Mild Acids	Gasoline
Plating Solutions	JP-4



SIDE VIEW



TOP VIEW



541 Kinetic Drive
Oxnard, CA 93030
www.harwil.com
v8.01

Phone: (805) 988-6800
Fax: (805) 988-6804
Email: harwil@harwil.com

MODEL Q-15N Q-15CR

✂ TECHNICAL SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

SPNO

Input Voltage	8 to 24 vdc
Contact Rating	
Switching Voltage	28 vdc max
Switching Current	1.5 amp (250 mA) max
Contact Resistance	.25 ohms

Q-15N (NORYL®)

WORKING PRESSURE: 200 psig max. @ 70°F

WORKING TEMPERATURE: 180°F @ ambient pressure

WETTED MATERIALS: Body: Noryl® (PPO) (10% glass fibers);
Paddle: 316 stainless steel Seal: Epoxy

Q-15CR (FORTRON®)

WORKING PRESSURE: 250 psig max. @ 70°F

WORKING TEMPERATURE: 200°F @ ambient pressure

WETTED MATERIALS: Body: Fortron® (PPS) (40% glass fibers);
Paddle: 316 HASTELLOY® C; Seal: Epoxy

SAMPLE PART NUMBER

Q-15N	/ ¾	/ SB	/ 4S	/ 2FT
BASE MODEL				
PROCESS CONNECTION ¾" NPT				
PIPE SIZE: SB ¾" TO 1"; LB 1½"+				
PADDLE NUMBER				
LENGTH OF CABLE (FT)				

Note: Tee and orifice options available when ordering.

NOTE: Model Q-15N employs magnetic coupling between bending blade and switch body. Magnetic particles can accumulate on and around magnetic housing which may affect proper operation. Please conduct appropriate fluid magnetic particle evaluation and operational tests prior to and during installation and use.

- Installation drawing and a numbered parts list is supplied with each unit.
- Special one-day delivery is available.