# **WWEKSLER**

### **THROTTLING DEVICES**

A throttling device should be used when a pressure gauge is subjected to rapid pressure fluctuations, which make the gauge difficult to read because of rapid pointer movement. Such a device reduces pressure impact, slows the speed and range of pointer movement, and prolongs gauge life.

Throttling effect is obtained by installing a restricting orifice between the gauge socket connection and the bourdon tube. Several types are available: throttle screws, pressure snubbers, pulsation dampeners, Gauge Saver® and the Campbell MICRO-BEAN.

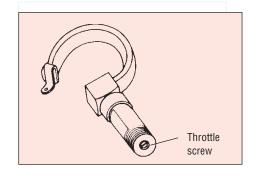
Severe service applications are characterized by the presence of significant levels of pressure pulsation and/or vibration. Gauges should be protected from severe pressure pulsation by the inclusion of a dampener such as a throttle plug/screw or porous metal snubber. If the pulsation is extreme, a liquid-filled gauge, with dampener, should be used. A liquid-filled gauge will also last significantly longer than a comparable dry gauge when vibration is present. If the vibration levels are extreme, the only solution may be to remotely mount the gauge away from the source of vibration. In that case capillary tubing may be used to connect the gauge to the pressure source.

### **THROTTLE SCREWS**

The simplest means of providing a restriction in the socket, a throttle screw, should be ordered with the gauge. Threaded or pressed into an instrument socket, the throttle screw orifice selected is based on the viscosity of the pressure fluid, rapidity of pressure fluctuations, and the amount of dampening effect desired.

A smaller orifice should be used for low viscosities, high frequencies, high pres-

sure and reduced pointer amplitude. To accommodate these variables, throttle screws are available in these sizes: 0.0135, 0.020, 0.031, 0.040, and 0.070 inches, in brass and stainless steel. When orifice size or service condition is not specified, a 0.020-inch orifice will be supplied on Royal pressure gauges 0.0135, on 3½" Regal Gauges.





Stationary Red Set Hand to indicate a specific pressure. Ring must be removed to move the hand.

# MAXIMUM POINTER 80 100 40 120 140 160 PSIG 160 PSIG

Maximum Pointer available for gauges 4½" size and larger. Indicates maximum pressure attained. Can be reset by a knob on outside of window.



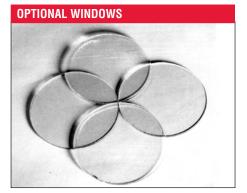
**Overload Stop** to protect gauge system against extreme overpressure.



Vacuum Stop
to protect low range gauges against vacuum.



ranges different from standards, or custom artwork, available on application.



Plastic Disc – optional for glass window Laminated Safety Glass – optional for glass window

Nonglare Glass - optional for glass window

### **Weksler Accessories**

# **WWEKSLER**®

### **ELECTRIC WARNING CONTACTS**

The electric contact feature is a switching mechanism actuated by the indicating pointer. Switch points are adjustable and can be set throughout the 270° arc. Contacts are used to activate alarms and relays. (Not recommended for continuous switching). The Weksler electric contact is an ideal accessory to turn on a signal light, sound an alarm, or operate a pump or valve. The contacts can easily be set so that a circuit can be closed or opened at a desired pressure or temperature. Settings can be easily made in the field without removing the instrument from service. Contact adjustment is made externally with a removable key to make the instrument virtually tamper proof. Contacts are equipped with adjustable magnets to eliminate chatter caused by vibration. A plug-in connector with five feet of electrical cable is standard.

### **STANDARD FEATURES**

- High impact polycarbonate enclosure for ambient temperature up to 150°F
- Full scale contact adjustment from front of enclosure
- · Available on ranges 30 psi and up
- Magnetically assisted, silver alloy contact
- Accuracy ±2% of scale arc (add to instrument accuracy)
- Rated for ¼ amp. 110 volt AC non-inductive load
- Available in: 4½" case styles#2\*, #4, #6, "A" 6" case styles#2, #4, #6, "A"

Model	Code	Contact arrangements	
2265	XED	High and low contact	
	XEE	Double high contact	
	XEF	Double low contact	
	XEG	"OFF" at low and high, and "ON" in between	

<sup>\*</sup> Style case #2 with lower connect comes with DIN Conection. No cable, mating conector available at extra charge.



Indicating accuracy of Royal Gauge, above 300 psi with contact:
Pointer not carrying contact – 1.0%.
Pointer carrying contact – 1.5%.
For ranges below 30 psi, add an additional ½% to indicating accuracies.

### **TEST GAUGE CARRYING CASE**

This rugged blow-molded high-density polyethylene carrying case accommodates the standard 4½," 6 & 8½" Regal analog test gauges. It accepts both lower and back connect gauges. A foam insert protects the gauge when not in use. Type No. 2505.



### **TOOLS**

**Hand Jack Set** – gauge pointer remover and a pointer set to secure pointer to the shaft. Type No. 3220.

**Ring Removal** – For the  $3\frac{1}{2}$ " Regal gauges. Includes  $2\frac{1}{2}$ " and  $3\frac{1}{2}$ " wrench and nest. Type No. 1206T.

Small Tools – For the 3½" Regal gauges. Includes pointer puller, span adjust wrench, slotted screw driver for pointer adjustment, pointer staker and pinion backup. Type No. 1205.

**Gauge Tool Kit** – A complete kit for gauge maintenance. Includes hand jack set, screw driver, five reamers, pin vise holder, wiggler and tweezer all packed in a neat carrying case. Ideal for a gauge maintenance shop. Type No. 1105T.



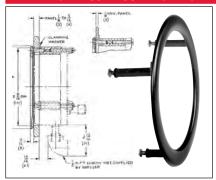
# **WWEKSLER®**

## Weksler Accessories, Options, Tools

ROYA	L AND REGAL GAUGE OPTIONS		
CODE	DESCRIPTION		
XNN	Paper Tag on Gauge		
XNH	SS Tag Wired to Gauge		
XMN	SS Tag Wired to Gauge		
X0S <sup>(1)</sup>	Overload Stop		
XVS (1)	Underload Stop		
XTS	Throttle Screw		
XDM	Dial Markings		
X6B	Cleaned for Oxygen Service		
XGV	Silicone Filled		
XSH	Red Set Hand		
XSJ	Dual Red Set Hands		
XEP*	Max. Indicating Hand		
XEQ*	Min. Indicating Hand		
XSG	Safety Glass		
XPD	Plastic Window		
XC1	Certificate of Conformance		
XC4	Calibration Certificate		
* Not a	vailable in 3½″ Regal		

<sup>(1)</sup> Standard for 31/2

### **TYPE 1278M FLUSH MOUNTING RING**



Gauge Size	Ring O.D.	A Dia. (inches)	"B"-Three Screws
(inches)	(inches)		Size
41/2	6.000	5.625	#10-24 x 1%"
67.765	7.25	1/4-20 x 11/2"	

Used to flush-mount 4½" and 6" Royal and bellows type gauges. Standard finish is black; polished stainless steel finish is available at an extra charge, 4½" and 6".

FLUSH MOUNTING RING						
CODE	DESCRIPTION	TYPE	MOUNTING MATERIAL			
56	Flush Mounting Rings*	1278M	Black			
57		1278MC	Polished SS			

<sup>\*</sup>For  $4\frac{1}{2}$ " and 6" Royal / Regal gauges manufactured after 10/1/04

### TYPE A-1285

Ring Wrench - 41/2"

(For installing front threaded rings in  $4\frac{1}{2}$ " #2, #4 safety cases)

### TYPE A-1286

Ring Wrench - 6"

(For installing front threaded rings in 6" #4 aluminum safety cases)

