

THREADED OFFLINE WELDED DIAPHRAGM SEALS

REOTEMP's Threaded Offline Welded Diaphragm Seals are designed with an upper and lower housing bolted together with a diaphragm welded to the upper housing. This removable design allows for easy cleanout of the seal chamber, while still maintaining the system fill. The threaded offline diaphragm seal can be adapted to fit almost any pressure instrument and process application.



SPECIFICATIONS

Diaphragm	316SS, Hast C-276, Tantalum, Monel, or others		
Lower Housing	316SS, Hast C-276, Monel, CPVC, or others		
Gasket	PTFE, Grafoil, Kalrez, or Klinger		
Upper Housing	316SS or Nickel-plated Carbon Steel		
Process Temperature Limits		W51/W61	W5K/W6M/W5H

Temp	erature Limits	5	W51/W61	W5K/W6M/W5H
		PTFE Gasket	-110/350°F	-110/400°F
Metal	Metallic Lower	Klinger Gasket	-110/450°F	-110/500°F
		Grafoil Gasket	-40/600°F	-40/750°F
	Non-Metallic Lower		140°F	N/A

Ambient	Determined by the pressure instrument.
Temperature Limits	

Minimum Recomme

ien	ided Span	W5	W6
	2.5" & 3.5" Gauges	15 psi	200" H ₂ O
	4", 4.5", & 6" Gauges	30 psi	200" H ₂ O
	Transmitter (Gauge Pressure)	150" H ₂ O	60" H ₂ O
	Transmitter (Differential Pressure)	300" H ₂ Od	60" H ₂ Od
	Differential Pressure Gauge (D40/42 Only)	N/A	N/A

Weight

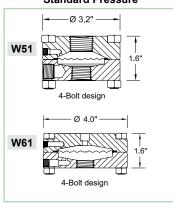
Note: Weights are approximate.

	Metallic Lower	Non-Metallic Lower
W51/W5K	3.5 lbs	2.5 lbs
W5H	11.0 lbs	N/A lbs
W61/W6M	5.2 lbs	4.2 lbs

FEATURES / BENEFITS

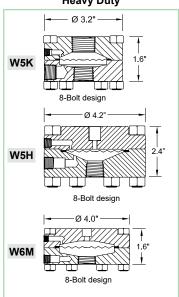
- Welded Diaphragm for Maximum Durability
- · Wide Variety of Diaphragm and Material Options
- Continuous-duty Disc Protects from Process Fluid Leaking in the Event of a System Breach
- Easy Cleanout of Diaphragm Cavity without Compromising Filled System

Standard Pressure



Note: All drawings depict a single 1/4" NPT Flush Port (optional). Drawing are not to scale. Contact REOTEMP customer service for more detailed drawings.

Heavy Duty



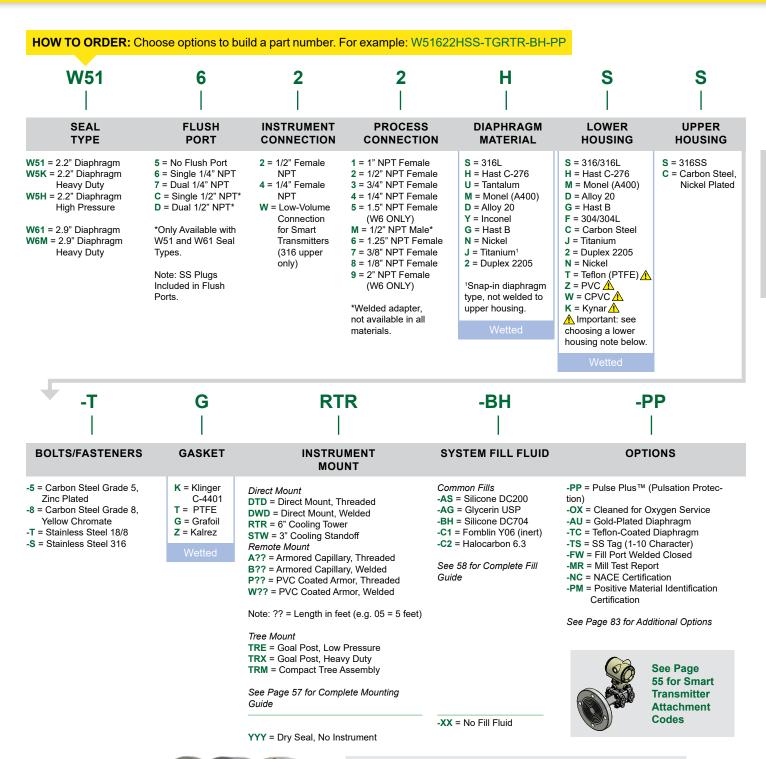
Maximum Working Pressure at 100°F:

	Bolts	Grade 5	Grade 8	18/8SS	316SS
Metallic Lower	W51	2,500 psi	2,500 psi	1,500 psi	1,500 psi
	W5K	5,000 psi	5,000 psi	3,000 psi	2,500 psi
	W5H	-	10,000 psi	-	-
	W61	1,500 psi	1,500 psi	1,000 psi	750 psi
	W6M	2,500 psi	2,500 psi	2,000 psi	2,000 psi
Non-Metallic Lower		300 psi	300 psi	300 psi	300 psi

Series W51/W61



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Important Note on Choosing a Lower Housing: Reotemp recommends the use of metallic lower housings when process compatibility allows. Before specifying a non-metallic lower housing, users should be familiar with the material characteristics and risks of non-metallic materials including leaking, cracking, flowing and other issues that can affect durability and performance.