

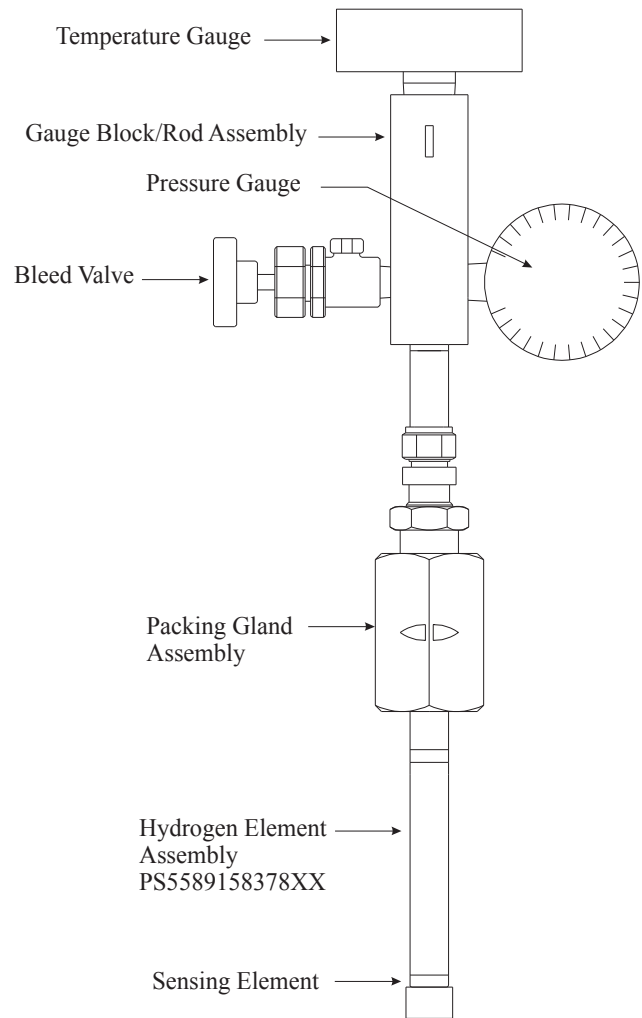
Model HY4000

Hydrogen Probe Retractable with Packing Gland

Model HY4000 is a high pressure hydrogen probe which can be used for pressures up to 1500 psi. Hydrogen probes are commonly used for monitoring hydrogen permeation in steels, which could lead to embrittlement, blistering, and decarburization resulting in the failure of the material.

The probe assembly consists of three subassemblies: the gauge assembly, the insertion rod sensing element assembly, and the packing gland assembly. The gauge assembly consists of a gauge body, a pressure gauge (0-40 psi), a temperature gauge, and a bleed valve. The sensing element is about 3.5 inches long and consists of a thin-walled tube which is sealed from the process and allows nascent hydrogen to permeate.

The probe can be supplied with or without the gauge assembly, which can be bought separately if required.



Specifications:

Probe Body - 316 Stainless Steel
Temperature Rating - 500°F / 260°C
Pressure Rating - 1500 PSI / 102 Bar
Mounting - 1" Full Port Valve (Min.)

Gauge Assembly Parts	
Part No.	Description
PS5509	Gauge Assembly (complete) - contains all parts listed below
PR6441158	Pressure Gauge
PR6032	Temperature Gauge
PR6034	Bleed Valve
PS5603158	Gauge Block / Rod Assembly

Metal Samples Corrosion Monitoring Systems

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HY4000 Ordering Information

Model				
HY0030	Hydrogen Probe w/ Gauge Assembly			
HY4532	Hydrogen Probe 1" NPT Female Thread with Packing Gland & Gauge			
Hydrogen Element Diameter				
20	5/8"			
Seal Type				
0	All welded			
Length				
24	17.53" max. insertion length			
30	23.53" max. insertion length			
36	29.53" max. insertion length			
42	35.53" max. insertion length			
HY4532	20	0	24	Example of Housing Ordering #

For alloys, sizes, or other special requirements not listed, contact our sales department.