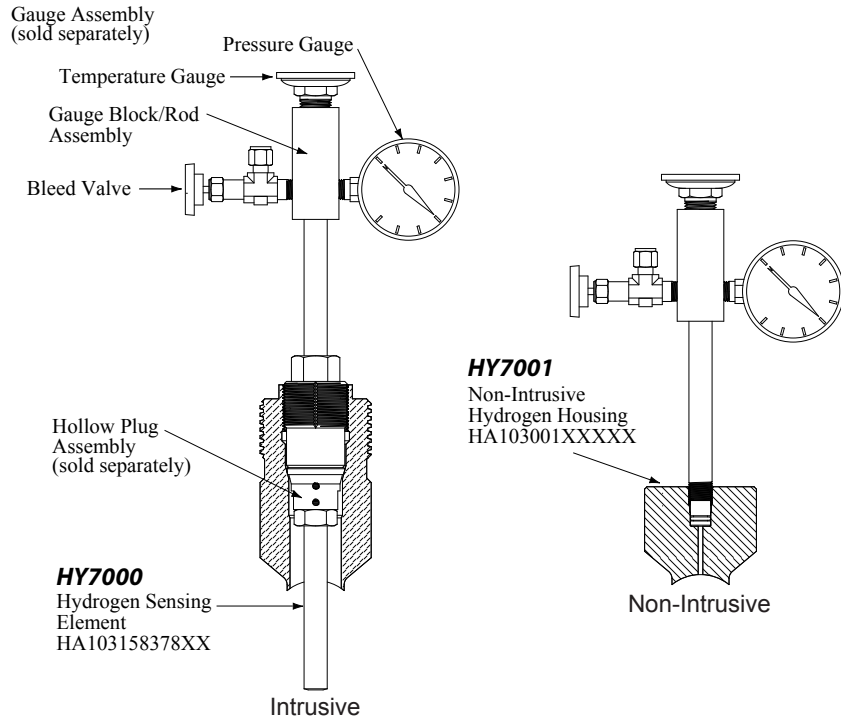


Model HY7000 / HY7001

Hydrogen Probes for High Pressure (HP™ and MH™) Access Systems or Direct Mount



Model HY7000 and HY7001 are high pressure hydrogen probe configurations which can be used for pressures up to 3600 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 intrusive hydrogen probe assembly consists of three subassemblies (sold separately): the gauge assembly, the hollow plug assembly, and the HY7000 sensing element assembly. The gauge assembly consists of a gauge body, a pressure gauge (0-60 psi), a temperature gauge, and a bleed valve. The sensing element on the HY7000 probe is about 3 inches long and consists of a thin-walled tube which is sealed from the process and allows nascent hydrogen to permeate. The minimum insertion length (I.L.) of the probe is 6 inches and can be ordered in 1 inch increments.

The HY7001 housing can be machined to fit the flat surfaces of tanks or radiused to fit pipe diameters. The HY7001 consists of two subassemblies: the gauge assembly and the non-intrusive housing that can be welded directly to the exterior of the pipe wall or vessel.

Specifications:

Probe Body - 316 Stainless Steel

Temperature Rating - 500°F / 260°C

Pressure Rating - 3600 PSI / 245 Bar

Mounting - High Pressure (HP™ or MH™)

Access System w/ Hollow Plug (HY7000)

Direct Mount (HY7001)

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

* The gauge assembly is sold separately, not included with probe.

HY7000 Ordering Information

Model		
HA103158378	High Pressure Hydrogen Probe Sensing Element	
	Length (Round calculated length down to the nearest 1")	
	XX	Length in inches (Ex: 6" = 06). Available in 1" increments starting at 6".
HA103158378	XX	Example of Probe Ordering #

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

Length formula:

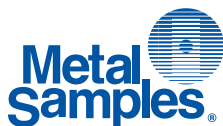
$$I.L. = PD + WT + 1.75''$$

(where PD = penetration depth, WT = wall thickness)

Note: Formula valid for access fitting heights of 5.25" (HP) and 5.5" (MH).

HY7001 Ordering Information

Model				
HA103001	Non-Intrusive Hydrogen Housing			
	Alloy			
	158	316		
	Pipeline Size			
	1	2"		
	2	3"		
	3	4"		
	4	6"		
	5	8 - 10"		
	6	12 - 18"		
7	20 - 26"			
8	Flat			
Gauge Block / Rod Assembly				
	0	Not included		
	1	Included		
HA103001	158	1	0	Example of Housing Ordering #



Metal Samples Company

A Division of Alabama Specialty Products, Inc.

152 Metal Samples Rd., Munford, AL 36268 Phone: (256) 358-4202 Fax: (256) 358-4515

E-mail: msc@alspi.com Internet: www.metalsamples.com

Houston Office: 6327 Teal Mist Lane, Fulshear, TX 77441 Phone: (832) 451-6825