High Pressure Retrieval Tool

Under-Pressure Insertion & Retrieval System for HP™ and MH™ Access Fittings up to 6,000 PSI

As an authorized Metal Samples distributor, Imotron supplies the High Pressure Retrieval Tool and Service Valve system for inserting and retrieving corrosion monitoring sensors, coupons, and injection devices under full operating pressure up to 6,000 PSI (414 bar). Engineered without telescoping parts and featuring side-wheel manipulation, the tool enables safe, single-operator servicing across Metal Samples MH™, HP™, and compatible generic 2-inch high-pressure access systems.

1. Key Design Features & Technical Specifications

Constructed in compliance with NACE MR0175 for sour service environments, each Retrieval Tool is supplied as a complete field kit including a protective carrying case, assembly accessories, and an O-ring seal kit.

Parameter	Specification & Operational Details
Maximum Working Pressure	6,000 PSI (414 bar) across full-pressure insertion and retrieval cycles.
Body Material & Compliance	17-4PH HH1150 stainless steel conforming to NACE MR0175. Incoloy 825 (I825) available for severe corrosive environments.
Operating Temperature	Standard Viton® seals: -15 °F to +400 °F (-26 °C to +204 °C). Low-temperature version: -30 °F to +250 °F (-34 °C to +121 °C). Specialty seal materials available on request.
Safety & Mechanical Design	Non-telescoping rigid body; side-wheel gear drive keeps operator clear of line axis; positive mechanical indication of full plug insertion or retraction; quick-stab collet latch (MH™) or landing screw adapter (HP™).
Required Stroke Calculation	Required Stroke = 9.5" + Plug Length (2.5" Solid Plug / 3.75" Hollow Plug) + Attachment Length.

2. Dimensional Specifications & Ordering Part Numbers

Tool size is selected based on the maximum pipeline diameter and access fitting assembly height. If the required pipeline size falls between two standard ranges, select the next larger tool size.

Part #*	Max. Pipe Size	Tool Length (A)	Tool + Valve to Pipe OD (B)	Available Stroke (C)	Tool Weight	Total Kit Weight (incl. Case)
HA10004X	4"	39"	54"	18.5"	47 lbs	84 lbs
HA10008X	8"	47"	62"	22.5"	52 lbs	89 lbs
HA10012X	12"	55"	70"	26.5"	57 lbs	97 lbs
HA10016X	16"	63"	78"	30.5"	62 lbs	102 lbs
HA10020X	20"	71"	86"	34.5"	67 lbs	110 lbs
HA10024X	24"	79"	94"	38.5"	72 lbs	115 lbs
HA10030X	30"	91"	106"	44.5"	83 lbs	131 lbs
HA10036X	36"	103"	118"	50.5"	92 lbs	140 lbs
HA10040X	40"	111"	126"	54.5"	97 lbs	150 lbs

***Adapter Suffix [X]:** Replace X with 4 for HP™ Adapter, 5 for MH™ Adapter, or 6 for Low-Temperature HP™ Adapter. Dimension (B) includes a standard non-tee access fitting.

3. Field Service & Maintenance Accessories

Part #	Accessory Description	Part #	Accessory Description
HA104000	Retriever Backpressure Kit — Hydraulic	HA102016	HP™ Thread Tap Assembly (Thread Repair)
HA104001	Retriever Backpressure Kit — Pneumatic	HA102036	HP™ Thread Die Assembly
HA104003	Hollow Plug Moisture Seal Plug	HA102038	HP™ Thread Chaser (Thread Cleaning)
HA104004	Hollow Plug Overshot Adapter	HA102009	MH™ Thread Chaser Assembly
HA104005	Diverter Hose (10 Feet)	HA104006	Surge Tube Assembly

Select the Right Retrieval Tool & Service Valve Package
Contact Imotron Instruments for stroke sizing calculations, HP™/MH™ adapter selection, and spare seal or replacement part support.