

Service Valve

for High Pressure (HP™ and MH™) Access Systems

Three different temperature rated ball-type service valves are available for use with Metal Samples retrieval tools: standard, low and high temperature. The female threads on this valve are industry-standard ACME threads and may be used with any Metal Samples high pressure access fitting as well as any other 2" access fitting.

The valves have a bleed valve located on the non-process side of the ball. This bleed valve may be used to drain the retrieval tool, sample process, or be used as a path for back-pressuring. All valves are NACE MR0175 compliant for use in sour service, factory pressure tested for a working pressure of 6000 psi* W.O.G..



Figure 1. Service Valve

The service valve is a portable valve that is used in conjunction with a retrieval tool. The service valve is threaded onto an access fitting in preparation for retrieving a plug. Next, the retrieval tool is attached to the service valve. System pressure is then equalized in the retrieval tool by unseating the plug. Occasionally deposit buildup in access fitting bodies does not allow for pressure equalization through the plug. If this occurs, the retrieval tool can be back pressured by use of a back-pressure kit (P/N - HA104000). Once pressure equalization has occurred, the plug is removed and the valve is shut. Finally, the retrieval tool is removed from the valve allowing access to the plug and its accessory. A Blanking Cap/Plug Assembly (P/N - PS5612) may be installed on the valve as an additional safety measure, if required.

Service valves are supplied with a durable lightweight field service case, extension bar, tool kit, and one O-ring seal kit. Additional accessory items are listed below.

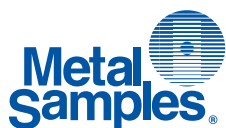
Model

HA101250 (Standard Temperature Valve)	-15°F to 200°F (-26°C to 93°C)
HA101251 (Low Temperature Valve)	-30°F to 200°F (-34°C to 93°C)
HA101252 (High Temperature Valve)	-15°F to 400°F (-26°C to 204°C)

Physical Data

Valve Weight: 45 lbs. Case Weight: 25 lbs. Total Weight: 70 lbs.

Case Dimensions: 12 3/4" x 13 3/4" x 20 1/4"



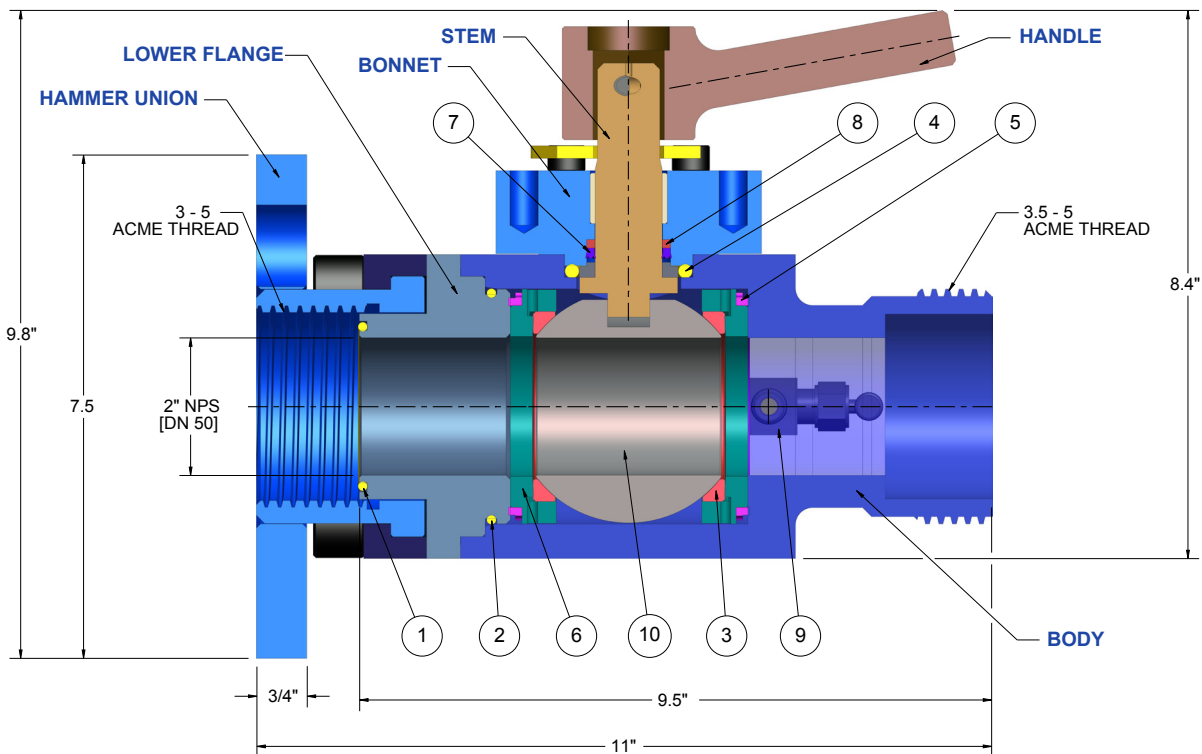
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Parts and Material List for Service Valve



Item	Description	Low Temp Part No.	Standard Part No.	High Temp Part No.	Low Temp Material	Standard Material	High Temp Material	Qty.
1*	Valve Face O-Ring	HA700604370	HA700604834	HA700604834	NBR (Buna-N)	FKM (Viton)	FKM (Viton)	1
2*	Lower Flange O-Ring				NBR (Buna-N)	FKM (Viton)	FKM (Viton)	1
3*	Ball Seat			PR6720A50	POM (Delrin/Celcon)	POM (Delrin/Celcon)	PEEK	2
4*	Bonnet O-Ring				NBR (Buna-N)	FKM (Viton)	FKM (Viton)	1
5*	"L" Seal				NBR (Buna-N)	FKM (Viton)	FKM (Viton)	2
6**	Seat Carrier				4130 C.S.	4130 C.S.	4130 C.S.	2
7*	Stem Seal				Polymyte / NBR (Buna-N)	Polymyte / FKM (Viton)	Polymyte / FKM (Viton)	1
8*	Seal Back-Up Ring				PTFE (Teflon)	PTFE (Teflon)	PTFE (Teflon)	1
9	Bleed Valve 6000 PSI		PR6359158		316 S.S.	316 S.S.	316 S.S.	1
10**	Valve Ball				17-4 PH S.S.	17-4 PH S.S.	17-4 PH S.S.	1

* Parts included in Seal Kit / Repair Kit.

(Top face O-ring - PR6303834 - used with older valves is also included in Seal Kit.)

** Parts included in Repair Kit.

Optional seal materials for higher and lower temperature ratings are available. Contact Metal Samples for details.

1. Seal Kit - P/N KR1009834 (Standard Temp)

2. Repair Kit - P/N KR1010 (Standard Temp)