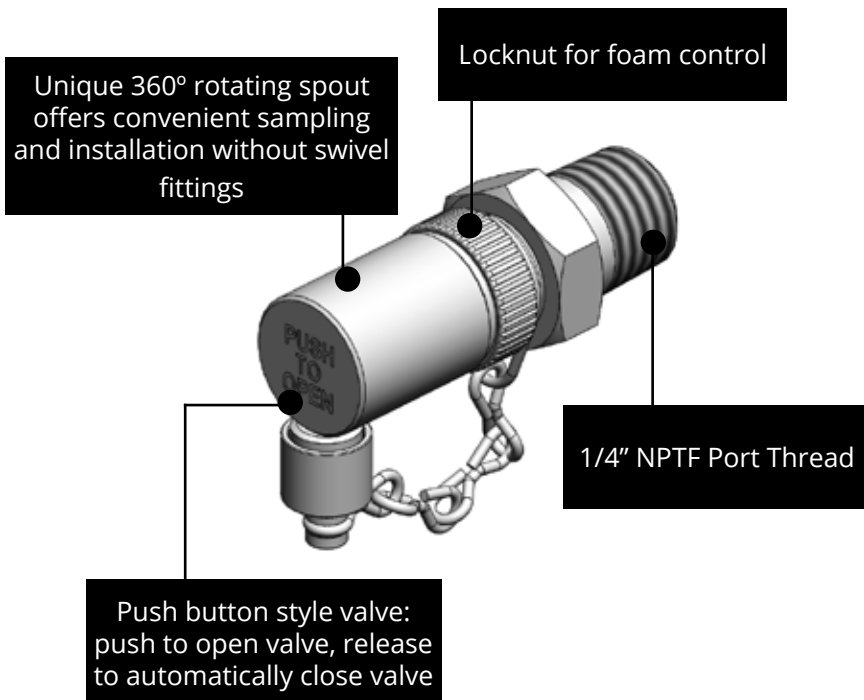


Ammonia & Refrigerant Compressors

The KPQ14NP has been specifically designed for ammonia/refrigerant compressors. When sampling ammonia, foaming is a regular issue that happens. The KPQ14NP has a locknut feature. When the locknut is threaded only a short distance behind the button, the user can quickly jarg or pulse the button. This pulsing of the button while sampling will help to reduce foam collection

KPQ14NP Benefits

- **No probes needed - eliminating the risk of cross contamination**
- Patented elastomeric vacuum tight seals
- Neoprene Sealing
- E-nickel plating and steel material for ammonia
- Automatic valve shut off
- Reliable: dual sealed design independently tested at 7800 psi for one million cycles
- **Sampling range of 5 - 750 psi (0.03 - 5.17 MPa)**



Part Number	Locknut or Weathersleeve	Port Thread Size and Type	Valve Sealing	Valve Material
KPQ14NP	Locknut	1/4"-18 NPTF	Neoprene	Carbon Steel
KPL14NQR	Locknut	1/4"-18 NPTF	Neoprene	Stainless Externals
KPL14NQ-R	Locknut	1/4"-18 NPTF	Neoprene	316 Stainless Steel



KPQ14NP In Use



Background - Why Were You Looking at Sampling Valves?

- It was a coincidence actually. Myself and the maintenance team had been talking about taking an oil sample from a compressor we were about to have overhauled. The Senior Chief Engineer overheard us and mentioned the KPQ Pushbutton valve. I thought the valve was worth a try and so I bought one.
- Before the KPQ our usual method of taking an oil sample was through an access valve or “Henry valve” that has no quick way of closing the valve other than turning the wrench to close it. The KPQ valve, to me, is a lot safer with the spring loaded technology for closing the valve.
- Safety is one of my biggest concerns in ammonia refrigeration. Anything that adds to safety performing any types of procedure is tremendous.

What Were The Results?

- The KPQ14NP was installed on the compressor
- He discovered not only was the valve safe to use, it’s easy to use. If you know something is simple to use, your employees are more likely to use it
- They no longer have to shut down the compressor to sample, saving them 20 minutes

KPQ Savings

One time cost of sampling valves	\$41.40
Total Cost	\$41.40
Recurring savings from reducing sampling time per machine	\$20
Samples per year	4
Total First Year Savings	\$38.60

**93.24% ROI
In The First Year**

- The savings may be small, but they will add up over time
- But in his view, the safety is more important, when asked if he foresees any other savings as a result of the sampling valves, he responded with: “If you view savings in the form of safety, absolutely. **We can brainstorm all day about the “what if” dangers we face in refrigeration. What does an on the job accident cost the company? Answer: A whole lot more than the cost of these valves.”**

