

# + JISKOOT SCV

## Sampling check valve

### FEATURES AND BENEFITS

Sampling performance you can trust, in even the most unconventional of conditions.

- + 316 Stainless steel body construction
- + Standard seal material is FKM
- + Service up to 414 BAR (6,000 psig)
- + Set pressure range 3.50 to 414 BAR (50 psig to 6,000 psig)
- + Temperature range -4°C (25°F) to 121°C (250°F)
- + Multiple spring ranges for variable pressure range control
- + Easy-ID colour-coded springs make for simple identification of pressure ranges
- + Tubing and NPT designs (1/4" NPT design has NPT male inlet & female outlet)
- + Designed and tested to MSS standard SP-99-1994 (R2005) – (Instrument Valves)
- + Manufactured to ASTM-A276 body construction specifications
- + Optional seal materials to meet operational demands

### EFFECTIVE SAMPLING IN THE MOST CHALLENGING CONDITIONS

Designed specifically for use with JISKOOT\* sampling and blending products the JISKOOT SCV\* sampling check valve has been created to perform in the most challenging liquid sampling applications. From conventional crude oils and refined products to sediment laden heavy oils, our engineers have utilized a variety of specialized materials to ensure peak performance in conditions where traditional sampling check valves prove ineffective.

With both 1/4" NPT pipe fittings and 1/4" tubing connections, the JISKOOT SCV can easily replace existing valve configurations in sampling applications. JISKOOT SCV valves can be configured to include a variety of optional seal materials to be implemented in either gas or liquid sampling. In addition a conventional safety relief valve can be used in conjunction with the JISKOOT SCV to protect the tubing, switching valves, receivers and other components that are downstream of the sampler.



JISKOOT SCV with 1/4" Tubing Connections



JISKOOT SCV with 1/4" NPT Connections

**SERVICE APPLICATIONS**

The JISKOOT SCV is available in 3 service types, standard, rugged and severe service.

The JISKOOT SCV for rugged service has specially designed internals coated in tungsten carbide that can withstand the continual cycling action of conventional sampling applications – where there are little-to-no abrasive particulates in the process fluid.

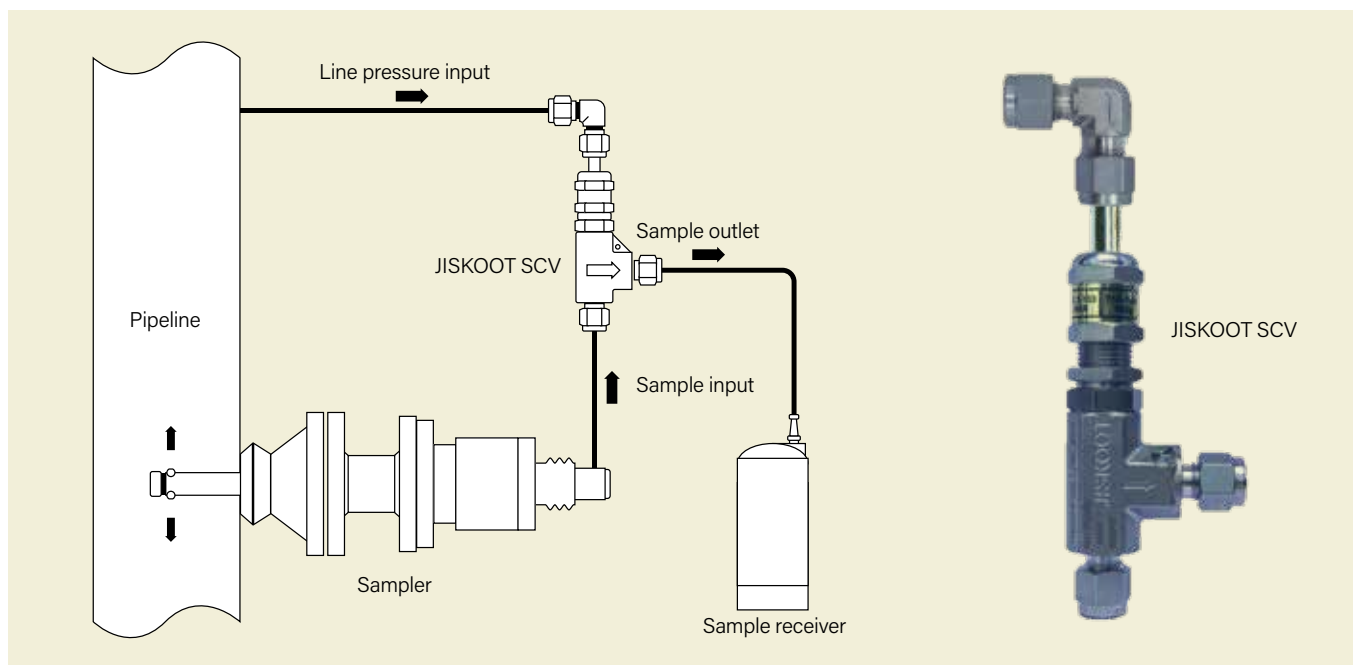
The JISKOOT SCV for severe service is designed for challenging sampling applications where there are entrained solids or abrasive particulates, which can lead to a reduction in the lifespan of traditional sampling check valves. Proven in severe field trials – specialized stems, seat materials and a customized internal design ensure that this sampling check valve can last three to five times longer than the JISKOOT SCV for rugged service use.



Severe service stem and seat

**LINE BALANCED SAMPLING CONFIGURATION**

As alternative to the traditional arrangement of a using a fixed set sampling check valve fitted to the outlet to a sampler is a line balanced sampling configuration. In this arrangement the JISKOOT SCV uses a line pressure input to balance the outlet back pressure on the sampler. This reduction in backpressure equates to a reduction in the force that is required to operate the sampler, which lowers the stress on the internal components. This in turn increases the performance and longevity of the sampler especially in high pressure applications.



Example of line balanced sampling configuration

**SPECIFICATIONS**

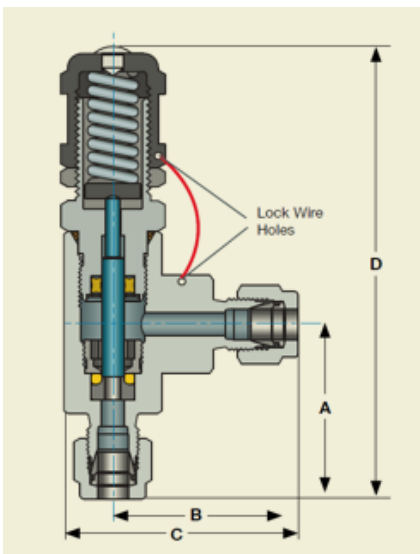
**Nominal cracking pressure range selection**

Pressure Imperial	Pressure Metric	Spring Colour
50-350 psig	3.4-24 BAR	WHITE
350-750 psig	24-51.5 BAR	BLUE
750-1,500 psig	51.5-103 BAR	GOLD
1,500-2,250 psig	103-155 BAR	TURQUOISE
2,250-3,000 psig	155-206 BAR	GREEN
3,000-4,000 psig	206-275 BAR	RED



**Pressure Temperature Rating for 1/4" Fittings**

Seal Material	Flourocarbon FKM	Buna N	Polychloropine	EPDM
<b>Temperature</b>	<b>Max Set Pressure</b>			
-40 degC (-40 degF)				
-34 degC (-30 degF)				
-23 degC (-10 degF)				
-18 degC (0 degF)				
-12 degC (10 degF)				
-4 degC (25 degF)				
-1 degC (30 degF)	413 bar (6,000 psig)	413 bar (6,000 psig)	413 bar (6,000 psig)	413 bar (6,000 psig)
10 degC (50 degF)				
65 degC (150 degF)	386 bar (5,600 psig)	386 bar (5,600 psig)	386 bar (5,600 psig)	386 bar (5,600 psig)
93 degC (200 degF)	358 bar (5,200 psig)	358 bar (5,200 psig)	358 bar (5,200 psig)	358 bar (5,200 psig)
121 degC (250 degF)	338 bar (4,900 psig)	338 bar (4,900 psig)	338 bar (4,900 psig)	338 bar (4,900 psig)
135 degC (275 degF)			324 bar (4,700 psig)	
148 degC (300 degF)				



Inlet / Outlet	Dimensions							
	A		B		C		D	
	inch	mm	inch	mm	inch	mm	inch	mm
1/4" Tube connector	1.45	37	1.53	39	1.97	50	3.78	96
1/4" Male NPT / 1/4" Female NPT	1.26	32	1.18	30	1.57	40	3.49	88.6