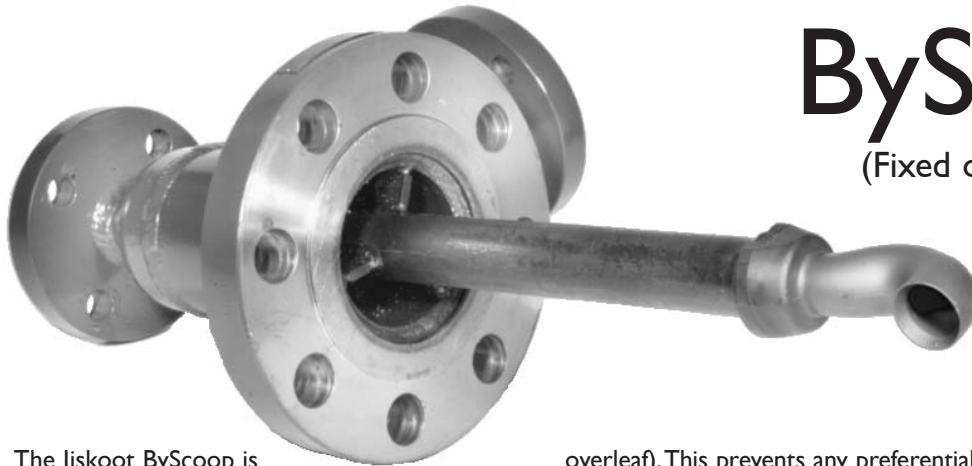




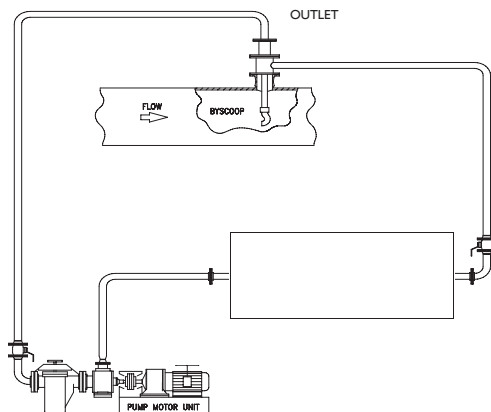
ByScoop

(Fixed or Withdrawable)



The Jiskoot ByScoop is a large bore sample by-pass probe specifically designed to ensure optimum sample representivity for cell samplers, water monitors, densitometers and on-line analysers. For the by-pass slipstream to be truly representative the sample intake must be located in the central third of a well mixed cross-section of the pipe flow and be designed to prevent any biasing of the slipstream properties.

The Jiskoot philosophy of cost reduction through high quality engineering solutions is evident in the ByScoop's integrated return, which eliminates the traditional need for separate entry and exit points on the line (see diagram), and in the reduction of hot tap size requirements: achieved through the use of an internally beveled, knife edged Swan Neck takeoff, offset to ensure a stream-line profile to the entry (see diagram



overleaf). This prevents any preferential bias caused by mixed fluids having different specific gravities.

The Jiskoot ByScoop has a substantial stem to allow insertion into the central third of the pipeline without bending or vortex shedding problems. The sample entry size is 33.5mm for a nominal 1" loop. The flow is accelerated in the loop to prevent any component fallout and reduce volume/time lag. The probe outlet valve is in-line with the main stem to allow any possible obstructions to be rodded out (see diagram).

The flow rate will normally be sized to give a sample inlet velocity between 10 and 300% of the main line velocity per IP 6.2.

The Jiskoot ByScoop is available for fixed or withdrawable mounting in any piping configuration.

! The Fixed ByScoop will install directly to a 3" pipeline stub.

! The Withdrawable ByScoop is installed through a 3" full bore ball valve. A seal housing may be provided with an optional loop return/purge connection to prevent sediments in the seal area building up and allow them to be dispersed prior to retrieval.

Hydraulic extractors are available to allow the withdrawable ByScoop to be removed from the pipeline without depressurizing. (see hydraulic extractor data sheet)

Data Sheet S042-0504-3 • ByScoop Sample By-Pass Probe



Technical Specification

The following represents a standard design; alternative specification including NACE MR-01-75 are available*

The following equipment is designed in accordance with the requirements of ASME B31.3 and is CE marked (where applicable) to PED – 97/23/EC

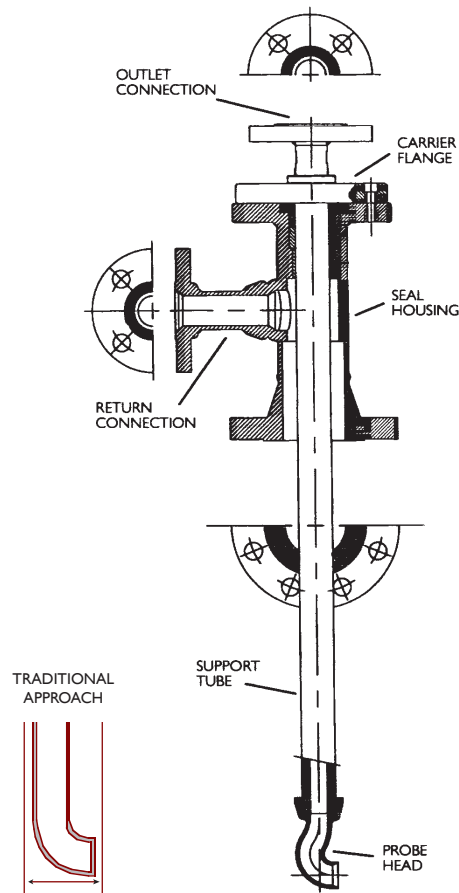
Withdrawable ByScoop

Maximum operating pressure	100 Barg at 40 °C (std material of construction) Higher pressure versions available*
Support tube	316 Stainless steel
Carrier flange	Carbon steel
Seal housing	ASTM A350 LF2 Carbon steel, (316 available*)
Probe head	ASTM A351-CF8M Stainless Steel
Seal	Nitrile proof cotton / nylon (other options available)
Installation	Pipeline mounting flange 3" NB 150/300/600# RF/RTJ. Outlet connection 1 ½ " or 1" NB 150/300/600# RF/RTJ Optional return connection 1 ½ " or 1" NB 150/300/600# RF/RTJ other options available*
Line temperature	-20°C to +100°C
Max line pressure	Std. version 49.6 bar (720psi) HP version 149 bar (2160psi)
Pipeline sizes	8" - 48". other sizes available by request.
Operating standards and CE compliance	ISO 3171, API 8.2, IP 6.2, PED – 97/23/EC, Machinery directive – 98/37/EC

*Charges made for these items

Fixed ByScoop

Maximum operating pressure	To suit flange and materials of construction
Support tube	ASTM A333 Gr6 Carbon steel
Probe head	BS 3146 CLA10
Mounting flange	ASTM A350 LF2 Carbon steel
Installation	Pipeline mounting flange 3" NB 150/300/600/900/1500 RF Exit connection 1 ½ " or 1" NB 150/300/600/900/1500 RF other options available*
Operating standards and CE compliance	ISO 3171, API 8.2, IP 6.2, PED – 97/23/EC, Machinery directive – 98/37/EC



These are standard design specifications. We operate a policy of continuous development and the information on this sheet may be updated without notice.



Jiskoot Limited
Tunbridge Wells, Kent TN11 2DJ, England Tel: +44 (0)1892 518000 Fax: +44 (0)1892 518100 email: sales@jiskoot.com
Jiskoot Incorporated
14503 Bammel N, Houston #110, Houston, Texas, 77014, USA Tel: +1-281-583-0583 Fax: +1-281-583-0587
www.jiskoot.com