DEBRI / JUNK CATCHER

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A junk or debris catcher, also known as a filter or screen, is a device used in oil and gas drilling operations to remove any debris or unwanted material from wellbore fluids. Debris and junk can come from various sources, including the drilling process, formation fluids, and proppant used in hydraulic fracturing. If left unchecked, this debris and junk can cause damage to downstream pressure control and measuring equipment, leading to potential safety hazards and operational issues. A junk or debris catcher typically consists of a filter vessel installed horizontally on each side of a manifold with independent isolation gate valves. The filter screens are designed for inside to outside flow and can be removed from the vessel for cleaning or replacement without interrupting the well flow

Introducing the Burj Debris/Junk Catcher: The Ultimate Solution for Removing Debris and Junk from Wellbore Fluids during Drilling and Testing Operations.
Designed to meet the demanding requirements of the oil and gas industry, the Debris/Junk Catcher is a revolutionary manifold assembly that delivers unparalleled performance and reliability. With its advanced debris/junk filter vessel installed horizontally on each side of the manifold, this assembly effectively removes drilling, formation and proppant-based debris from wellbore fluids without causing any damage to the pressure control and measuring equipment downstream.
The dual flow paths of this manifold assembly are equipped with independent upstream and downstream manual isolation gate valves, enabling the filter screens to be removed and cleaned/replaced without disrupting the well flow. The debris/junk filter screens are designed for inside to outside flow and can be supplied in a broad range of sizes and designs, with various amounts of holes/slots, up to a full filter wire wrapped screen with a typical range of 400, 800 & 1200 microns if required.
To ensure maximum efficiency, the Debris/Junk Catcher features flushing and drain ports on the filter vessels, along with ports for bleed off and pressure measurement. Moreover, the screen has a removable NPT plug installed on the closed end, allowing for mechanical cleaning or flushing of difficult to remove debris or junk from the screen.

In summary, the Debris/Junk Catcher is the ultimate solution for removing debris and junk from wellbore fluids during testing operations. With its advanced features, unparalleled performance, and exceptional reliability, this manifold assembly is a must-have for any oil and gas company operating in Alberta.

TECHNICAL SHEET

Maximum working pressure	10,000psi	15,000psi
Working temperature range	-29 to 121 Deg C (-20 to 250 Deg F)	-29 to 177 Deg C (-20 to 350 Deg F)
Service conditions	H2S / CO2	H2S / CO2
Process flow rates	35 MMScfd gas 5,000 BPD liquid	50 MMScfd gas 5,000 BPD liquid
Maximum gross mass tare mass (actual) payload	5,500 Kgs 5,000 Kgs 500 Kgs	7,500 Kgs 7,000 Kgs 500 Kgs
External dimensions	2991mm x 2438mm x 990mm (LxWxH)	2991mm x 26500mm x 1100mm (LxWxH)
Inlet /outlet connections	3" 1502 female/male	3 1/16" 15K flange or D27 hub
Drain /flush connections	1-13/16" API flange / 1" AEMP female with pressure test blinds	1-13/16" API flange / 1" AEMP female with pressure test blinds
Filter screens	SS 316L material with nominal sizing of 110mm diameter x 1675mm overall length, screen range of 400, 800 & 1200 microns with options of holed or slotted screens available on request	SS 316L material with nominal sizing of 110mm diameter x 1675mm overall length, screen range of 400, 800 & 1200 microns with options of holed or slotted screens available on request
Manufacturing codes	API 6A, PSL3, ASME VIII Div2, NACE MR01.75, DNV 2.7-3	API 6A, PSL3, ASME VIII Div2, NACE MR01.75, DNV 2.7-3