

# JDP Series

Large diameter coreless polypropylene depth cartridge to cost effectively filter semi-solids in midstream applications.

JPD Series large diameter coreless depth cartridges deliver cost effective performance at low pressure drop in liquid-based applications with high flow rates. These are well suited to midstream applications in the oil and gas industry to capture solid and semi-solid particulates within the filter media to deliver reliable, cost effective filtration.

These highly efficient inside to outside flow elements are constructed of polypropylene depth media providing high particle removal efficiency and a broad range of chemical compatibility. The coreless design reduces installation procedures and disposal costs.

These depth cartridges work extremely well where the feed has large amounts of solid contaminants. Our innovative design builds a cake that continues to capture particulate matter as the process operates while standard surface area filtration cartridges will need to be changed out much more often.

## Features and benefits

- Unique depth media design allows the cartridge to capture more contaminants
- The large diameter design can process higher flowrates with fewer elements significantly reducing downtime during element replacement
- Wide range of chemical compatibility for challenging applications



## Application in the field


**Application:** Produced NGL Condensate

**Challenge:** The customer was experiencing an issue with surplus paraffins in the feed stream causing traditional pleated elements to blind off requiring frequent change-outs. The existing filtration supplier installed a non-pleated element which ended up allowing the particulate and the paraffins to bypass causing major issues in downstream equipment.

**Solution:** Jonell Systems evaluated the current process design and determined that a staged filtration system was required to achieve the necessary results. Utilizing additional filter housings upstream combined with our JHF depth style cartridges, allowed for efficient removal of the paraffins along with high solids loading as compared to traditional elements. Installation of pleated elements in downstream housings allowed for final polishing of the NGL, providing on-spec product to the sales point.

**Customer Feedback:** With our suggested process improvements, the customer was able to remove paraffins and particulate to the desired levels allowing the customer to sell Y-Grade product to the downstream processor, while also increasing run times and improving process efficiency.

## Specifications

Products	Criteria	JHF Style	3862 Style
	Dimensions	Nominal OD: 6.0" Nominal length: 40", 60", 80"	Nominal OD: 6.2" Nominal length: 40", 60"
	Flow Direction	Inside to out flow	Outside to in flow
	Construction Materials	End caps: Polypropylene and Nylon (available) Orings: Viton, Buna, EPDM, Silicone Media: Large diameter polypropylene depth tube	
	Core	Polypropylene integral core built in to the depth tube	
	Operating Temperature	Polypropylene with polypro support: 180 deg F	
	Recommended change out PSID	15 - 25 psid (based on process)	
	Micron ratings	1, 5, 10, 20, 50um Efficiency statements range from 98% -90%	

## About us

Jonell Systems, a Process Technologies brand, partners with oil, gas and energy companies worldwide to address end to end filtration challenges to improve process safety, reliability, productivity and ultimately profitability. With a wide range of vessels and cartridges with multiple media options, talk to us to solve your filtration challenge.

We are a Filtration Group Company with a mission to make the world safer, healthier and more productive.

**ADDRESS**

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