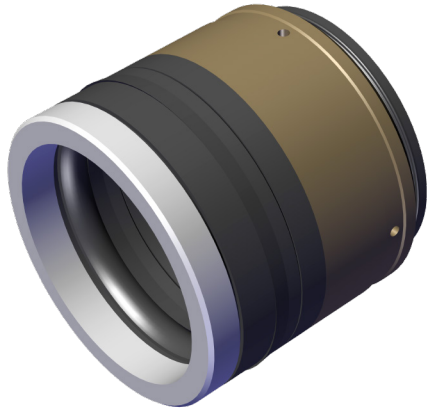


# SPM® Frac and Well Service Pump Packing

Simplified selection, improved availability, same great performance

## SPM™ Oil & Gas

A Caterpillar Company



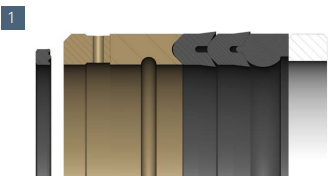
In the oil field, it is paramount to have proper packing sets readily available that are suited for your specific application. At SPM Oil & Gas, we understand this, and have restructured our packing offering to better meet your needs.

While still providing the wide range of quality product needed for the various shale play operating conditions, we have simplified our packing selection so you can easily find what you need on the shelf when you need it.

### SPM® Frac Pump Packing

For use in the following SPM® fluid ends in both legacy and SPM® Duralast™ models: TWS 2250, TWS 2400, TWS 2500, QWS 2500, QWS 2700, TEM 2500, QEM 3000 and EXL frac pumps.

**Frac Pump Low Pressure** – This set includes a header ring and (2) pressure rings. (See figure 1.) It is recommended for pressure pumping up to 10,000 psi and rated for up to 15,000 psi. For all higher pressure or non-standard operations, please contact SPM Oil & Gas.



Frac Pump Low Pressure Packing complete set

**General Service** – Standard header and pressure rings for basic applications

**Extreme Service** – Enhanced header ring with extreme pressure rings for maximum performance

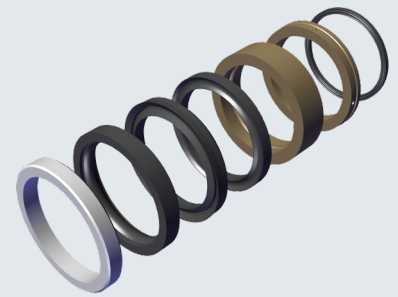
Plunger Size	General Service		Extreme Service	
	Soft Set	Complete Set	Soft Set	Complete Set
3 3/4"	P139803	2A140342	—	—
4"	P139805	2A140344	P139806	2A140345
4 1/2"	P139807	2A140346	P139808	2A140347
5"	P139809	2A140348	P139810	2A140349

**Note:** For CO<sub>2</sub> or H<sub>2</sub>S Service, Extreme Service is recommended.

### Features and Benefits

- High quality product with simplified selection and improved availability
- Utilize Tier 1 suppliers for the best quality, performance and service
- Comprehensive product offering covers wide range of operating conditions
- Reduced off the shelf lead times to minimize risk of downtime
- Available through our network of service centers strategically located near major shale plays worldwide

### Soft Sets vs. Complete Sets



Each packing offering can be ordered as either a soft set or complete set depending on your need.

#### Soft Sets include:

- Wiper Ring
- Tall Pressure Ring
- Pressure Ring
- Header Ring
- Backup Ring
- O-Ring
- Backup Ring
- O-Ring

#### Complete Sets include:

- All parts listed above, and
- Lantern Ring
- Seal Ring

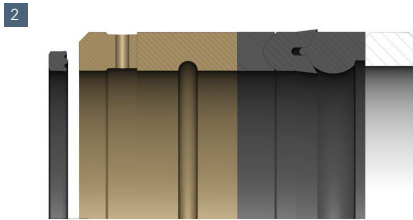
**Frac High Pressure** – This set includes a header ring, single pressure ring, and PEEK adapter. It is recommended for pressure pumping above 10,000 psi and rated for up to 15,000 psi. For all higher pressure or non-standard operations, please contact SPM Oil & Gas.

**General Service** – Standard header and pressure rings for basic applications

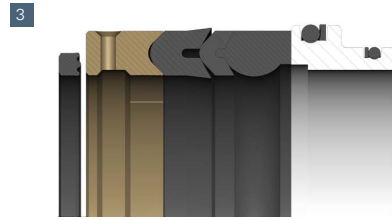
**Extreme Service** – Enhanced header rings with extreme pressure rings for maximum performance

**Note:** For CO<sub>2</sub> or H<sub>2</sub>S Service, Extreme Service is recommended.

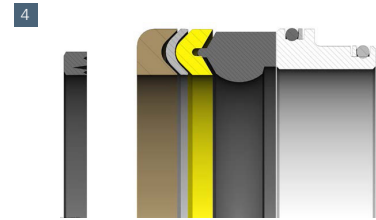
Extreme Service		
Plunger Size	Soft Set	Complete Set
4"	—	—
4 1/2"	P139796	2A140374
5"	P139798	2A140377
5 1/2"	P139800	2A140380



2  
Frac Pump High Pressure Packing complete set (above).



3  
Well Service Pump Packing complete set (see below).



4  
HD Service Well Service Pump Packing complete set (see below).

To further simplification, packing nuts now include integrated lantern rings that are easily identified by 'NL' with the part number. This offer is currently included with our QWS2500/TWS2250 Fluid Ends.

It is critical to operations not to mix standard and nut kits as this could lead to damage to the fluid ends and power ends.

For more information or options on the QEM product line, please contact your local technical representative.

### SPM® Well Service Pump Packing

For use in the SPM® TWS 600S and QWS 1000S pumps for cementing, acidizing, and other well service applications. (See figures 3 and 4 above). This offering is rated up to 20,000 psi.

**General Service** – Standard header and pressure rings for basic applications

**Enhanced General Service** – Pairs enhanced header rings with standard pressure rings for extended performance

**HD Service** – Enhanced Header Ring paired with a low profile extreme service pressure ring and low profile PEEK adapter

Plunger Size	General Service		Enhanced General Service		HD Service	
	Soft Set	Complete Set	Soft Set	Complete Set	Soft Set	Complete Set
2 1/2"	P139815	2A140366	P139827	2A140367	2A121829	2A121830
2 3/4"	P139817	2A140369	P139829	2A140370	2A121826	2A121827
3"	P139819	2A140372	P139831	2A140373	2A121817	2A121818
3 1/2"	P139821	2A140375	P139816	2A140376	2A121151	2A121150
4"	P139823	2A140378	P139818	2A140379	2A121805	2A121810
4 1/2"	P139825	2A140381	P139820	2A140382	2A121812	2A121813

**Note:** The HD Service offering is ONLY for use in SPM® TWS 600S HD and QWS 1000S HD pumps or in models of the TWS 600S and QWS 1000S that have been retrofitted with SPM® HD retrofit kits.

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