



Wireline-Retrievable Latches for Side-Pocket Mandrels

Weatherford offers a variety of wireline-retrievable latches for locking gas-lift, chemical-injection, and other special application devices into the appropriate side-pocket mandrel. To retrieve the latch and attached valve, the operator jars the toolstring upward, shearing the release shear pin and disengaging the locking mechanism from the latch lug pocket profile.

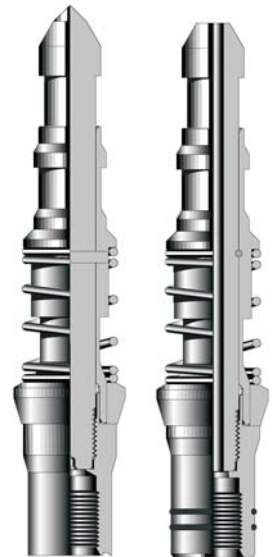
Weatherford's line of wireline-retrievable latches includes the BK-2, BEK-2, RK, RKP, RA, MT-2 and RM models. A ported ID is included in certain models for applications that require a communication path between the latch and an attached flow-controlled device, such as a circulating valve.

The **BK-2** and **BEK-2** latches feature a spring-loaded, ring-style locking mechanism. These valves are used to secure a 1-in. OD valve or dummy valve in a side-pocket mandrel with a 1-in. ID pocket. The two models are similar, but the BEK-2 model has a 0.375-in. ported ID. Both models are compatible with Weatherford's *McMurry-Macco*® series SM-1, SMO-1, SFO-1, SIFO-1, SBRO-1, and SMOR-1 side-pocket mandrels equipped with a 180° latch lug profile.

The **RK** and **RKP** latches also have a spring-loaded, ring-style locking mechanism and are used to secure a 1 1/2-in. OD valve or dummy valve in a side-pocket mandrel with a 1 1/2-in. ID pocket. The two models are similar, but the RKP model has a 0.453-in. ported ID. Both models are compatible with *McMurry-Macco* series SFO-2, SMOR-2, and SBRO-2 side-pocket mandrels equipped with a 180° latch lug profile.

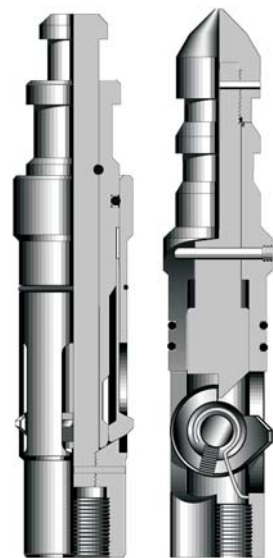
The **RA** latch is used to secure a 1 1/2-in. OD valve or dummy valve in a side-pocket mandrel with a 1 1/2-in. ID pocket. The RA latch has a spring-loaded rotating cam lock and an O-ring-style debris barrier. This latch is compatible with *McMurry-Macco* series SM-2, SMR-2, SBRO-2RA, SMOR-2RA, and SMO-2RA side-pocket mandrels equipped with a 360° latch lug profile.

The **MT-2** and **RM** latches offer additional holding ability with a collet-type and dog-type locking mechanism, respectively. These latches are used to secure a 1 1/2-in. OD valve or dummy valve in a side-pocket mandrel with a 1 1/2-in. ID pocket and a 360° latch lug profile.



BK-2 Latch

RKP Latch



MT-2 Latch

RA Latch



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Features, Advantages and Benefits

- Wireline-retrieveable latch design allows valves to be pulled and serviced or replaced without pulling the tubing.
- A ported ID is included in certain models to allow flow through the latch to an attached flow-controlled device.
- Most 1 1/2-in. OD latch models include two O-rings that provide a barrier against fine sands and debris, protecting the latch from becoming stuck and hindering retrieval.
- Models are available in standard 316 SS and optional special corrosion-resistant and/or erosion-resistant materials for durability and extended service life.
- Latches are available with special coatings to prevent scale buildup and enhance erosion resistance.

Specifications

Valve Pocket ID		Latch Pocket Profile	Latch Model	Assembly Number	Latch Mechanism	Ported ID		Pulling Neck OD		Running Neck OD		Maximum Valve OD		Running Tool	Pulling Tool
(in.)	(mm)					(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)		
1	25.4	180°	BK-2	0901-xxx	Lock-ring	N/A		0.875	22.23	0.750	19.05	1.359	34.52	JK	1 1/4-in. JDC
			BEK-2	0902-xxx		0.313	7.95		0.00		0.00				
			RK	1002-xxx		N/A		1.185	30.10	0.937	23.80	1.786	45.36		
RKP	003-xxx	0.453	11.51	0.00	0.00										
1.5	38.1	360°	MT-2	1005-xxx	Collet	N/A	1.367	34.72	1.000	25.40	1.750	44.45	TER	2-in. JDC	
			RM-2	1007-xxx	Dog			0.00		1.340		34.04	0.00		JC-3
			RA	1001-xxx	Cam			1.359	34.52						

N/A = not applicable