

KBG Series Side Pocket Mandrels

Premium side pocket mandrels for 1-in [25.4-mm] valves

APPLICATIONS

- Normal and corrosive service
- Single-string completions

BENEFITS

- Enables precise alignment and insertion of side pocket devices, minimizing the opportunity for hang-up during slickline operations
- Optimizes production with unique design features to facilitate operations

FEATURES

- Positioning sleeve orientation system
- Integral machined discriminator and pocket
- Round body for higher pressure ratings and premium metallurgy applications
- Availability in a variety of materials

Camco gas lift KBG mandrels incorporate an integral, one-piece pocket and tool discriminator and an orienting sleeve for positive kickover tool alignment in highly deviated wells.

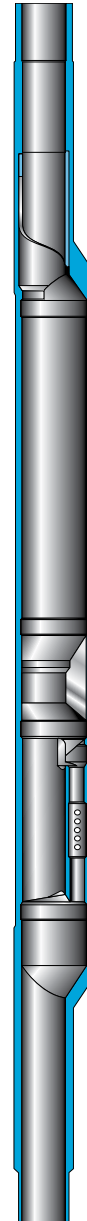
The tool discriminator excludes larger slickline tools from the pocket area. These mandrels are available in a variety of tubing connection sizes and incorporate all the standard design features of Camco side pocket mandrels.

KBG mandrels have round OD configurations similar to KBTG series side pocket mandrels. The KBG has a discriminator and pocket configuration similar to KBMG mandrels, and the round design increases the mandrel's pressure rating over the rating of the KBMG.

Design variations

KBG mandrels have design variations tailored to specific production applications, and are available in a wide range of sizes. KBG-2 series mandrel has a slightly reduced OD and a fully open ID designed for heavyweight tubing.

KBG series side pocket mandrels are available in a range of fully traceable materials and can be heat treated to comply with NACE specification MR0175 for stress-cracking resistant metallic materials.



KBG series side pocket mandrel.

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Engineering Data for KBG Series Side Pocket Mandrels

Tubing Size, [†] in [mm]	Type [†]	Major OD, in [mm]	Internal Drift, in [mm]	Test Pressure (Internal), psi [kPa] [‡]		Test Pressure (External), psi [kPa] [‡]		Latch Type	Kickover Tool
				Normal Service	Corrosive Service	Normal Service	Corrosive Service		
2.875 [73.0]	KBG	4.875 [123.8]	2.229 [56.6]	na [§]	12,000 [82,737]	na	12,500 [86,184]	BK series, BEK-2, BEK-3, Integral	OK,TPM
3.500 [88.9]	KBG-2	5.369 [136.4]	2.867 [72.0]	13,000 [89,636]	11,000 [75,846]	12,400 [85,499]	10,400 [71,708]	BK series, BEK-2, BEK-3, Integral	OK,TPM
4.500 [114.3]	KBG-2	5.984 [152.0]	3.600 [91.4]	6,616 [45,610]	na	6,300 [43,439]	na	BK series, BEK-2, BEK-3, Integral	OK,TPM

[†]Additional sizes and pressure ratings are available upon request.

[‡]Test pressures listed are all for low-alloy steel, heat treated for normal or corrosive conditions. These pressures may be reduced because of end connection limitations.

[§]Not applicable

Guide to KBG Series Side Pocket Accessories

Gas Lift Valve	Equalizing Dummy Valves	Dummy Valves	Shear Orifice Valves	Circulating Valves	Chemical Injection Valves	Waterflood Flow Regulator Valves
BK	EK, EK-1	EK, DK-1	S02M-14R	CSK-1, BKFS	CM-40R, BKLK-2, BKCI-2	na [†]
BK-1	EK, EK-1	EK, DK-1	S02M-14R	CSK-1, BKFS	CM-40R, BKLK-2, BKCI-2	na
BKT	EK, EK-1	EK, DK-1	S02M-14R	CSK-1, BKFS	CM-40R, BKLK-2, BKCI-2	na
BKT-1	EK, EK-1	EK, DK-1	S02M-14R	CSK-1, BKFS	CM-40R, BKLK-2, BKCI-2	na
NOVA-10	EK, EK-1	EK, DK-1	S02M-14R	CSK-1, BKFS	CM-40R, BKLK-2, BKCI-2	na
BKR-5	EK, EK-1	EK, DK-1	S02M-14R	CSK-1, BKFS	CM-40R, BKLK-2, BKCI-2	na
PK-1	EK, EK-1	EK, DK-1	S02M-14R	CSK-1, BKFS	CM-40R, BKLK-2, BKCI-2	na
DKO-2	EK, EK-1	EK, DK-1	S02M-14R	CSK-1, BKFS	CM-40R, BKLK-2, BKCI-2	na
BKO-3	EK, EK-1	EK, DK-1	S02M-14R	CSK-1, BKFS	CM-40R, BKLK-2, BKCI-2	na
BKO-5	EK, EK-1	EK, DK-1	S02M-14R	CSK-1, BKFS	CM-40R, BKLK-2, BKCI-2	na

[†]Not applicable

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