

MISSION Valves



	Roughneck	Roughneck WL	Roughneck HP	Roughneck HP WL	Roughneck Bonded	White Lightning Bonded	Black Lightning Bonded
Style	Full open	Full open	Full open	Full open	Full open	Full open	Full open
Insert Mat.	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Type	Insert	Insert	Insert	Insert	Bonded	Bonded	Bonded
Max. Temp.	180	230	180	230	200	230	350
PSI	7,500	7,500	7,500	7,500	7,500	7,500	7,500
Colour	Red	White	Yellow	White	Grey	White	Black
Water	✓	✓	✓	✓	✓	✓	✓
WBM	✓	✓	✓	✓	✓	✓	✓
OBM	✓	✓	✓	✓	✓	✓	✓
SBM	✓	✓	✓	✓	✓	✓	✓
Material	One-piece unitized case hardened alloy steel body	One-piece unitized case hardened alloy steel body	One-piece unitized case hardened alloy steel body	One-piece unitized case hardened alloy steel body	One-piece unitized case hardened alloy steel body	One-piece unitized case hardened alloy steel body	One-piece unitized case hardened alloy steel body
	The large insert of this valve allows the use in the higher solids concentration due to its ability to surround and crush particulate matter	The large insert of this valve allows the use in the higher solids concentration due to its ability to surround and crush particulate matter	Solids content from low to moderate, superior runs in clean drilling fluids	Solids content from low to moderate, superior runs in clean drilling fluids	The large urethane sealing area of this valve has the ability to surround and crush particulate matter, for use in high solids concentrations. The bonded feature prevents solids from getting between the seal and the metallic body.	The large urethane sealing area of this valve has the ability to surround and crush particulate matter, for use in high solids concentrations. The bonded feature prevents solids from getting between the seal and the metallic body.	The large urethane sealing area of this valve has the ability to surround and crush particulate matter, for use in high solids concentrations. The bonded feature prevents solids from getting between the seal and the metallic body.
API6	9700285	9700367	9700353	9700359	9700602	9700602WL	9700602BL
API7	9700250	9700368	9700354	9700356	9700601	9700601WL	9700601BL
API8	9700382	9700369	N/A	N/A	9700606	9700606WL	9700606BL

MISSION Valves



	Service (Mission) Master	Oilwell FK1	National FKN	Supreme	Supreme WL
Style	Full open	Stem guide (3 web)	Full open	Stem guide (4 web)	Stem guide (4 web)
Insert Mat.	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Type	Insert	Insert	Insert	Insert	Insert
Max. Temp.	180	180	180	180	230
PSI	7,500	5,000	5,000	7,500	7,500
Colour	Yellow	Yellow	Metal	Yellow	White
Water	√	√	√	√	√
WBM	√	√	√	√	√
OBM	√	√	√	√	√
SBM	√	√	√	√	√
Material	One-piece unitized case hardened alloy steel body	Manufactured from alloy steel that is case-hardened	Body is of forged design and treated for resistance to wear	Manufactured from alloy steel that is case-hardened	Manufactured from alloy steel that is case-hardened
	This full open valve can be utilized in low to moderate solids concentrations	Stem guided valve and three web seats suitable for lower solids concentrations	Fully open valve designed for low to moderate solids concentrations	Stem guided valve and four web seats suitable for lower solids concentrations	Stem guided valve and four web seats suitable for lower solids concentrations
API6	083017004	20160171	1560995	060152808	060152809
API7	083019505	20160928	1560985	060155041	060155042
API8	N/A	20160127	1560965	060140100	060140101