



DESIGN AND ASSEMBLY DATA

VAM Drilling provides both one-piece and two piece Kelly valves designed for the maximum passage of drilling fluids without pressure loss. Valves are supplied with either API or VAM Drilling proprietary double shoulder connections.

VAM Drilling has two types of Kelly valves, KC2S with PTFE rings inserted in both upper and lower seats and KC4S with metal-to-metal seals. Both come in either standard or H2S-resistant versions.

The KC2S PTFE-ring provides good sealing capability, even at low pressures. In the KC4S metal-to-metal seal valve, sealing is performed by controlled elastic deformation of the special plug. This technological choice, combined with enhanced-seat guidance gives excellent sealing characteristics for the life of the valve. VAM Drilling Kelly valves are available in either Class 1 or Class 2 test specifications.

VAM Drilling Kelly valve features include:

- Simple construction for trouble-free operation and easy servicing;
- Sealed lubrication packing;
- Complete stainless steel valve parts available for H2S service;
- Available in 10,000 and 15,000 psi working pressure; and
- Complete with operating wrench and thread protectors.



KC2S Assembly



Kelly Valves

DESIGN AND ASSEMBLY DATA

Lower Kelly Valve

KC2S Series	OD (in)	ID (in)	Connection	Length S to S (in)	Weight (lbs)
201	3 3/8	1 1/4	NC26 (2 3/8 IF)	13	29
202	4 3/4	1 3/4	NC38 (3 1/2 IF)	13	51
203	5 3/8	2 1/8	NC38 (3 1/2 IF)	15	77
204	6 3/8	2 1/4	NC46 (4 IF)	15	109
205	6 5/8	2 7/16	NC46 (4 IF)	16	124
206	6 5/8	2 13/16	NC50 (4 1/2 IF)	16	117
206	7 1/4	2 13/16	5 1/2 FH	16	147
207	7 3/8	3 1/16	NC56	16	149

Upper Kelly Valve

KC2S Series	OD (in)	ID (in)	Connection	Length S to S (in)	Weight (lbs)
203	5 3/4	2 1/8	4 1/2 REG LH	15	85
206	7 3/4	2 13/16	6 5/8 REG LH	16	173
207	7 3/4	3 1/16	6 5/8 REG LH	16	169
208	7 3/4	3 1/4	6 5/8 REG LH	16	165

Drill string Safety Valves compatibility

Lower Kelly Valve

	NC26 (2 3/8 IF)	NC38 (3 1/2 IF)	NC38 (3 1/2 IF)	NC46 (4 IF)	NC46 (4 IF)	NC50 (4 1/2 IF)	5 1/2 FH	NC56
OD (in)	3 3/8	4 3/4	5 3/8	6 3/8	6 5/8	6 5/8	7 1/4	7 3/8
ID (in)	1 1/4	1 3/4	2 1/8	2 1/4	2 7/16	2 13/16	2 13/16	3 1/16
ID passage (in)	2 1/4	2 7/8	3 3/8	4 3/16	-	4 9/16	4 9/16	-
Length S to S (in)	13	13	15	15	16	16	16	16
Weight (lbs)	29	51	77	109	124	117	147	149
Serie	201	202	203	204	205	206	206	207

Inside BOP

OD	3 3/8	4 3/4	5		6 1/4	6 1/2	7	8
ID	1 1/2	2 1/4			2 13/16	2 13/16	2 13/16	2 13/16
Length S to S	31	33			35	35	37	38
Weight	31	62			116	121	153	215
Weight	1	3			4	4	4	4

Drop-in Check-Valve

Landing sub OD		4 3/4	4 3/4	4 3/4	6	6 1/2		8
Check Valve OD		1 9/32	1 25/32	2 5/32	2 15/64	2 15/32		2 27/32
Requested Drillstring ID		1 11/32	1 27/32	2 7/32	2 19/64	2 17/32		2 29/32
Check Valve ID		3/8	5/8	3/4	7/8	1 1/8		1 3/8
Drift ID		1 5/32	1 29/64	1 27/32	2 11/64	2 1/8		2 33/64
Length S to S		17	18	22	24	24		25
Serie		901	902	903	904	905		906

For information only