



Command



Safety Valves

Design for Superior
Performance and Safety



Kelly Cock

Application and General Use

Kelly Cocks are devices that allow for shutting the internal bore of the drill string keeping the mud column in the top drive or the Kelly when disconnecting from the drill string. It controls the flow of the mud during normal drilling operations and is operated from the rig floor. Standard configurations include two Kelly Cocks; an upper Kelly Valve and lower Kelly Valve.

Product Description

The Kelly Cock Valve is designed and manufactured as a one-piece and a two-piece Kelly Valve for free-passage and maximum circulation of the drilling fluid without pressure loss. Kelly Valves are supplied with either API or proprietary connections and manufactured according to the latest edition of the API 7-1 specification.

KC2S Kelly Valves are available in either standard or H₂S resistant versions and are supplied according to Class 1 construction.

Main Features

- › simple construction for trouble-free operations and easy servicing
- › sealed lubrication packing
- › 10,000 and 15,000 PSI working pressure (testing pressure 15,000 and 22,500 PSI respectively)
- › KC2S Kelly Valves are delivered with an operating wrench and disassembly tool

Other configurations available upon request, subject to engineering department approval.

The KC2S product range is available in 9 different series allowing the following passage IDs:

SERIES	ID (IN)
201	1-1/4
202	1-3/4
203	2-1/8
204	2-1/4
205	2-7/16
206	2-13/16
207	3-1/16
208	3-1/4
209	4-1/4

Hydraulic Testing

Each Kelly Valve is hydraulically bench tested according to API spec 7-1 (latest edition) and delivered with its individual pressure test records.

The tests are carried out in two steps:

- › **SHELL TESTING** during which the valve is pressurized to the test pressure for 3 minutes, then depressurized and pressurized again for at least 10 minutes.
- › **SEAT TESTING** during which the valve is pressurized from the pin end to its working pressure for at least 5 minutes.

During the pressure-holding period timing starts when pressure stabilization is achieved. No visually detectable leakage is permitted during the test time period and the pressure drop shall be no greater than maximum 1% of the pressure test value with a zero leak rate.

Valve Compatibility

In case the Check Valve has to be dropped into the drill string, the compatibility of Check Valve OD and KC2S free passage is a critical factor. The table below shows the compatibility between KC2S Kelly Cocks and Drop-in Check Valves.

KELLY COCK REQUIRED		RDCV
KC2S SERIES		SERIES
202	1-3/4 ID	901
203	2-1/8 ID	902
204	2-1/4 ID	903
204/205	2-1/4 ID	904
206	2-13/16 ID	905
207	3-1/16 ID	906
207	3-1/16 ID	907
208	3-1/4 ID	908

One Piece Kelly Cock Valve

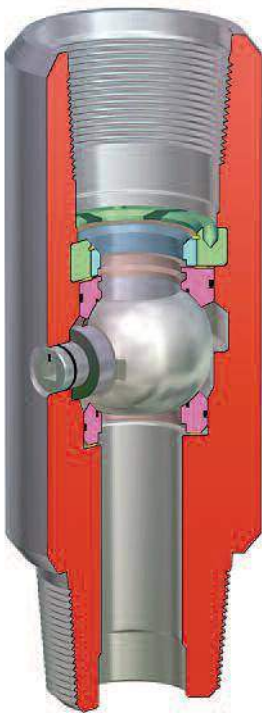


Figure 1 – Kelly Cock
Cutaway View

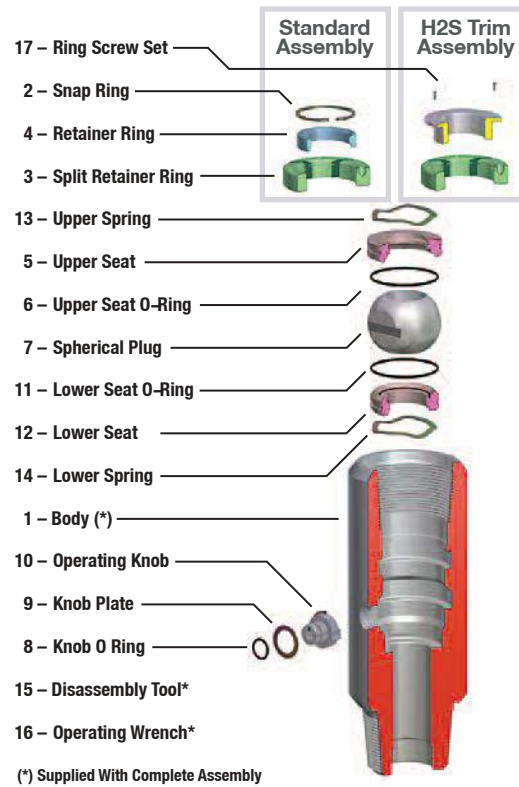


Figure 2 – Kelly Cock
Exploded View

One Piece Kelly Cock

One Piece Kelly Cock			
TYPE OF KIT	DESCRIPTION	STANDARD VERSION	H2S TRIM VERSION
Seal Kit	Includes all parts needed for replacement each time the Valve is disassembled; i.e. O-Ring Seals, Springs, Knob Plate and Snap Ring or Screw Set.	Items 2, 6, 8, 9, 11, 13 & 14	Items 6, 8, 9, 11, 13, 14 & 17
Complete Repair Kit with Tooling	Includes all inside Valve components plus its Operating Wrench and Disassembling Tool.	Items 2 to 16	Items 3 to 14 & 17
Complete Repair Kit without Tooling	Includes all KC2S Inside Valve components.	Items 2 to 14	Items 3 to 17

Two Piece Kelly Cock Valve

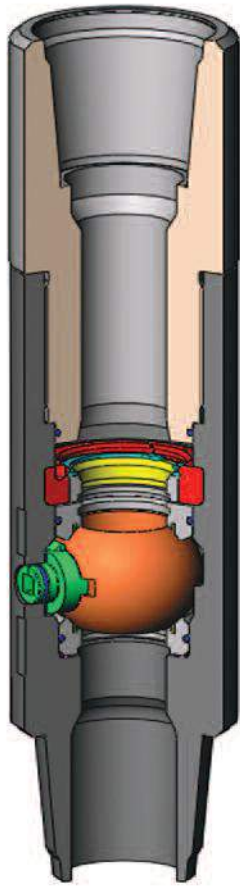


Figure 1 – Kelly Cock
Cutaway View

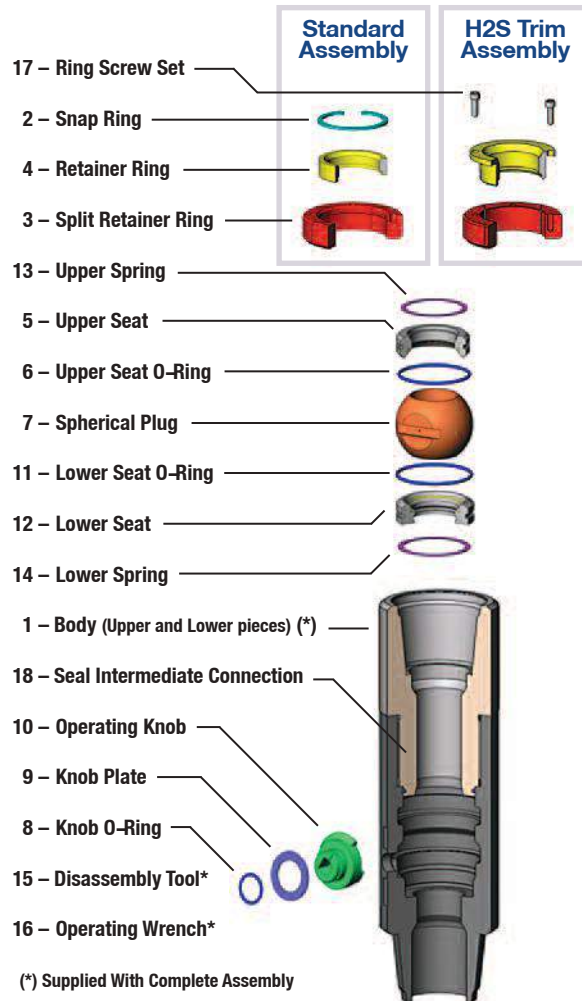


Figure 2 – Kelly Cock
Exploded View

Two Piece Kelly Cock

Two Piece Kelly Cock			
TYPE OF KIT	DESCRIPTION	STANDARD VERSION	H2S TRIM VERSION
Seal Kit	Includes all parts needed for replacement each time the Valve is disassembled; i.e. O-Ring Seals, Springs, Knob Plate and Snap Ring or Screw Set.	Items 2, 6, 8, 9, 11, 13, 14 & 18	Items 6, 8, 9, 11, 13, 14, 17 & 18
Complete Repair Kit with Tooling	Includes all internal parts plus Operating Wrench and Disassembling Tool.	Items 2 to 16 & 18	Items 3 to 14 & 17-18
Complete Repair Kit without Tooling	Includes all internal parts.	Items 2 to 14 & 18	Items 3 to 18

Spare Parts and References

Standard Repair Kit									
ITEM	SERIES								
	201	202	203	204	205	206	207	208	209
Seal kit for One Piece Kelly Cock	KCK201S021	KCK202S021	KCK203S021	KCK204S021	KCK205S021	KCK206S021	KCK207S021	KCK208S021	KCK209S021
Seal kit for Two Piece Kelly Cock	KCK201S106	KCK202S103	KCK203S106	KCK204S102	KCK205S104	KCK206S103	KCK207S136	KCK208S104	KCK209S100
Complete repair kit without tooling for One Piece Kelly Cock	KCK201S023	KCK202S025 Valve OD < 4 1/4	KCK203S102 Valve OD < 5 3/8	KCK204S100 Valve OD < 6	KCK205S023	KCK206S023	KCK207S125 Valve OD < 7 3/8	KCK208S023	KCK209S023
		KCK202S023 Valve OD >= 4 1/4	KCK203S023 Valve OD >= 5 3/8	KCK204S023 Valve OD >= 6			KCK207S023 Valve OD >= 7 3/8		
Complete repair kit without tooling for Two Piece Kelly Cock	KCK201S108	KCK202S111 Valve OD < 4 1/4	KCK203S108 Valve OD < 5 3/8	KCK204S103 Valve OD < 6	KCK205S105	KCK206S105	KCK207S138 Valve OD < 7 3/8	KCK208S105	KCK209S101
		KCK202S105 Valve OD >= 4 1/4	KCK203S110 Valve OD >= 5 3/8	KCK204S104 Valve OD >= 6			KCK207S140 Valve OD >= 7 3/8		
Complete repair kit with tooling for One Piece Kelly Cock	KCK201S022 Valve OD < 4 3/4	KCK202S024 Valve OD < 4 1/4	KCK203S101 Valve OD < 5 3/8	KCK204S101 Valve OD < 6	KCK205S022	KCK206S022	KCK207S124 Valve OD < 7 3/8	KCK208S022	KCK209S022
		KCK202S022 4 1/4 <= Valve OD < 6 1/4	KCK203S022 5 3/8 <= Valve OD < 5 7/8						
		KCK202S109 Valve OD >= 4 3/4	KCK202S112 Valve OD >= 6 1/4	KCK203S100 Valve OD >= 5 7/8					
Complete repair kit with tooling for Two Piece Kelly Cock	KCK201S107 Valve OD < 4 3/4	KCK202S113 Valve OD < 4 1/4	KCK203S107 Valve OD < 5 3/8	KCK204S105 Valve OD < 6	KCK205S106	KCK206S104	KCK207S137 Valve OD < 7 3/8	KCK208S106	KCK209S102
		KCK202S104 4 1/4 <= Valve OD < 6 1/4	KCK203S109 5 3/8 <= Valve OD < 5 7/8						
		KCK202S114 Valve OD >= 6 1/4	KCK203S110 Valve OD >= 5 7/8	KCK204S106 Valve OD >= 6					

H ₂ S TRIM Repair Kit									
ITEM	SERIES								
	201	202	203	204	205	206	207	208	209
Seal kit for One Piece Kelly Cock	KCK201H021	KCK202H021	KCK203H021	KCK204H021		KCK206H024	KCK207H021	KCK208H024	Not created
Seal kit for Two Piece Kelly Cock	KCK201H101	KCK202H104	KCK203H105	KCK204H100		KCK206H103	KCK207H104	KCK208H100	Not created
Complete repair kit without tooling for One Piece Kelly Cock	KCK201H023	KCK202H109 Valve OD < 4 1/4	KCK203H109 Valve OD < 5 3/8	/	KCK205H023	KCK206H026	KCK207H112 Valve OD < 7 3/8	KCK208H026	Not created
		KCK202H023 Valve OD >= 4 1/4	KCK203H023 Valve OD >= 5 3/8	KCK204H023 Valve OD >= 6			KCK207H023 Valve OD >= 7 3/8		
Complete repair kit without tooling for Two Piece Kelly Cock	KCK201H102	KCK202H108 Valve OD < 4 1/4	KCK203H110 Valve OD < 5 3/8	/	KCK205H100	KCK206H104	KCK207H106 Valve OD < 7 3/8	KCK208H101	Not created
		KCK202H105 Valve OD >= 4 1/4	KCK203H106 Valve OD >= 5 3/8	KCK204H101 Valve OD >= 6			KCK207H109 Valve OD >= 7 3/8		
Complete repair kit with tooling for One Piece Kelly Cock	KCK201H100 Valve OD >= 4 3/4	KCK202H111 Valve OD < 4 1/4	KCK203H111 Valve OD < 5 3/8	/	KCK205H022	KCK206H025	KCK207H113 Valve OD < 7 3/8	KCK208H025	Not created
		KCK202H022 Valve 4 1/4 <= OD < 6 1/4	KCK203H022 5 3/8 <= Valve OD < 5 7/8						
		KCK202H103 Valve OD >= 6 1/4	KCK203H104 Valve OD >= 5 7/8	KCK204H022 Valve OD >= 6			KCK207H109 Valve OD >= 7 3/8		
Complete repair kit with tooling for Two Piece Kelly Cock	KCK201H103 Valve OD >= 4 3/4	KCK202H110 Valve OD < 4 1/4	KCK203H112 Valve OD < 5 3/8	/	KCK205H101	KCK206H105	KCK207H105 Valve OD < 7 3/8	KCK208H102	Not created
		KCK202H106 Valve 4 1/4 <= OD > 6 1/4	KCK203H107 Valve 5 3/8 <= OD > 5 7/8						
		KCK202H107 Valve OD >= 6 1/4	KCK203H108 Valve OD >= 5 7/8	KCK204H102 Valve OD >= 6			KCK207H108 Valve OD >= 7 3/8		

Operational Benefits

COMMAND SMFI offers KC2S Kelly Valves with PTFE rings inserted in both upper and lower seats, which provide high sealing capability, even at low pressures. KC2S internal parts are made of high grade heat treated stainless steel. The design of the body limits plug rotation to 90° between open and closed positions. Two KC2S versions are offered to suit drilling environments:

- The standard version for normal drilling conditions with an inside surface treated to enhance mud corrosion resistance and maintenance operations.
- The H₂S trim version which has been designed for H₂S environments with internal parts made of corrosion resistant materials matching the NACE MR0175 standard (latest edition), fitted in a standard body.

Inside BOP (I-BOP)

Application and General Use

Wells can at times experience unpredictable pressure differentials causing flow into the well bore that can potentially be catastrophic for the rig and rig personnel, if uncontrolled. Safety Valves are an essential component to maintaining the safety of the well and drilling operations. Safety Valves are configured in the drill string and used on the rig floor and down-hole to manage safe operations while controlling kicks and preventing back flow of the drilling mud during the drilling process.

Product Description

The Inside BOP Valve (BVR) is a heavy duty Check Valve connected to the drill string for use on the rig floor level to protect from kicks at surface. It can be left in the drill string as long as necessary to reestablish well control with over-balanced pressure.

I-BOP Valves are supplied with either API or with proprietary connections. All I-BOP Valves are manufactured to API 7-1 specification latest edition.

I-BOP Valves are available in both standard or H₂S resistant versions and supplied according to Class 1 construction.

The I-BOP product range comes with 4 sizes corresponding to internal part dimensions as follows:

INTERNAL TRIM SERIES	VALVE SEAT ID (IN)
1	1-1/2
2	1-3/4
3	2-1/4
4	2-13/16

Main Features

- › OD sizes ranging from 3-3/8" to 9-1/2"
- › ID sizes ranging from 1-1/2" to 2-13/16"
- › 10,000 and 15,000 PSI working pressure (testing pressure 15,000 and 22,500 PSI respectively)

Other configurations available upon request, subject to engineering department approval.

Hydraulic Testing

Each I-BOP Valve is hydraulically bench tested according to API spec 7-1 (latest edition) and delivered with its individual pressure record sheets.

The pressure test is carried out in two steps:

- › **SHELL TESTING** during which the valve is pressurized to the test pressure for 3 minutes, then depressurized and pressurized again for at least 10 minutes (see figures 1 & 2).
- › **SEAT TESTING** during which the valve is pressurized from the pin end to its working pressure for at least 5 minutes (see figures 1 & 2).

During the pressure-holding period, timing starts when pressure stabilization is achieved. No visually detectable leakage is permitted during the test time period and pressure drop shall be no greater than maximum 1% of the pressure test value with a zero leak rate.

Operational Benefits

I-BOP body and internal parts are made of high grade heat treated steel. The I-BOP Valve sealing is achieved through a PTFE ring inserted in the valve. Two I-BOP construction versions are available:

- › The standard version which is suitable for normal drilling conditions. The standard body inner surface is surface treated to improve resistance against mud corrosion and maintenance operations.
- › The H₂S trim version which has been designed for H₂S environments. Internal parts are made of corrosion resistant materials matching NACE MR0175 standard (latest edition) and fitted in a standard body.

Inside BOP

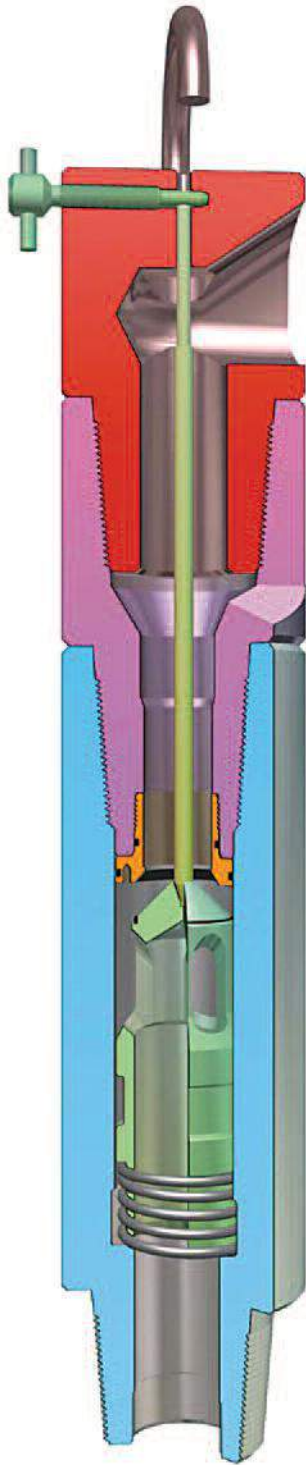


Figure 1 – Inside BOP
Cutaway View

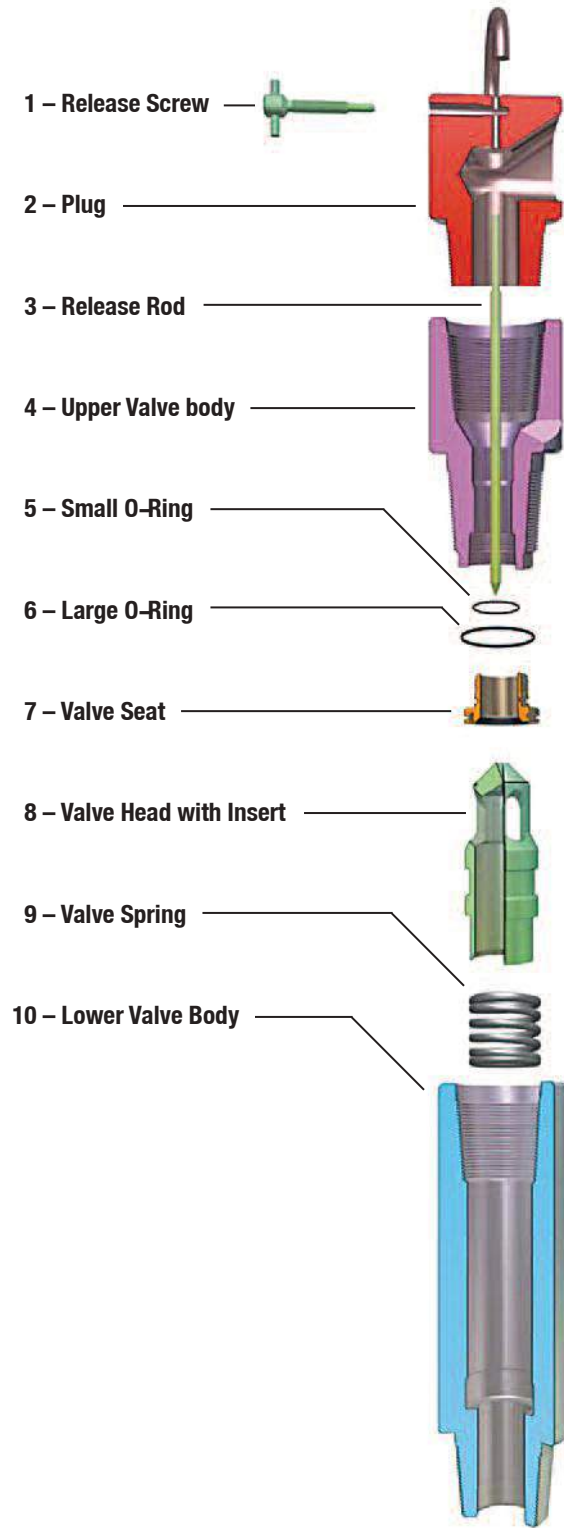


Figure 2 – Inside BOP
Exploded View

Spare Parts and References

ITEM	STANDARD VERSION			
	Trim 1	Trim 2	Trim 3	Trim 4
1 Valve Release Screw	BVP100S001	BVP200S001	BVP200S001	BVP400S001
5 Valve Head with Insert	BVP100S005	BVP200S005	BVP300S005	BVP400S005
6 Valve Seat	BVP100S006	BVP200S006	BVP300S006	BVP400S006
7 Valve Spring	BVP100S007	BVP200S007	BVP300S007	BVP400S007
9 Large O-Ring	JOIN044V01	JOIN053V01	JOINR41V01	JOINR50V01
10 Small O-Ring	JOINR33V01	JOINR36V01	JOINR36V01	JOINR41V01
Seal Kit	BVK100S001	BVK200S001	BVK300S001	BVK400S001
Complete Repair Kit	BVK100S002	BVK200S002	BVK300S002	BVK400S002

ITEM	STANDARD VERSION			
	Trim 1	Trim 2	Trim 3	Trim 4
2 Plug	Part numbers depend on valve configuration will be supply upon request			
3 Release Rod				
4 Upper Valve Body				
8 Lower Valve Body				

ITEM	H ₂ S SERVICE VERSION			
	Trim 1	Trim 2	Trim 3	Trim 4
1 Valve Release Screw	BVP100S001	BVP200S001	BVP200S001	BVP400S001
5 Valve Head with Insert	BVP100H005	BVP200H005	BVP300H005	BVP400H005
6 Valve Seat	BVP100H006	BVP200H006	BVP300H006	BVP400H006
7 Valve Spring	BVP100S007	BVP200S007	BVP300S007	BVP400S007
9 Large O-Ring	JOIN044V01	JOIN053V01	JOINR41V01	JOINR50V01
10 Small O-Ring	JOINR33V01	JOINR36V01	JOINR36V01	JOINR41V01
Seal Kit	BVK100S001	BVK200S001	BVK300S001	BVK400S001
Complete Repair Kit	BVK100H002	BVK200H002	BVK300H002	BVK400H002

ITEM	H ₂ S SERVICE VERSION			
	Trim 1	Trim 2	Trim 3	Trim 4
2 Plug	Part numbers depend on valve configuration will be supply upon request			
3 Release Rod				
4 Upper Valve Body				
8 Lower Valve Body				

Retrievable Drop in Check Valve (RDCV)

Product Description

The Retrievable Drop-in Check Valve (RDCV) is used to control back flow from high pressure formations into the well and through the drill string back to the surface. It also allows for downward fluid circulation within the drill string. When the back flow is under control, the Drop-in Check Valve can be retrieved using a wire line.

If a kick or back flow starts while tripping out the pipes, it can be controlled with a drill pipe Safety Valve or Kelly Cock to close the flow thru the drill pipe before reconnecting the Kelly and for pumping the RDCV down to its landing sub.

By design, the Check Valve is equipped with a self-locking (under down hole pressure) feature.

Main Features

- › Landing Sub OD ranging from 3-3/8 to 8-1/2"
- › Check Valve OD sizes ranging from 1-9/32" to 3-7/64"
- › Check Valve ID sizes ranging from 3/8" to 1-11/16"
- › 10,000 and 15,000 PSI working pressure (testing pressure 15,000 and 22,500 PSI respectively)

Other configurations available upon request, subject to engineering department approval.

The RDCV product range has 8 Valve series corresponding to different Check Valve outside diameters (OD):

SERIES	CHECK VALVE OD (IN)
901	1-9/32
902	1-25/32
903	2-5/32
904	2-15/64
905	2-15/32
906	2-27/32
907	3-3/64
908	3-7/64

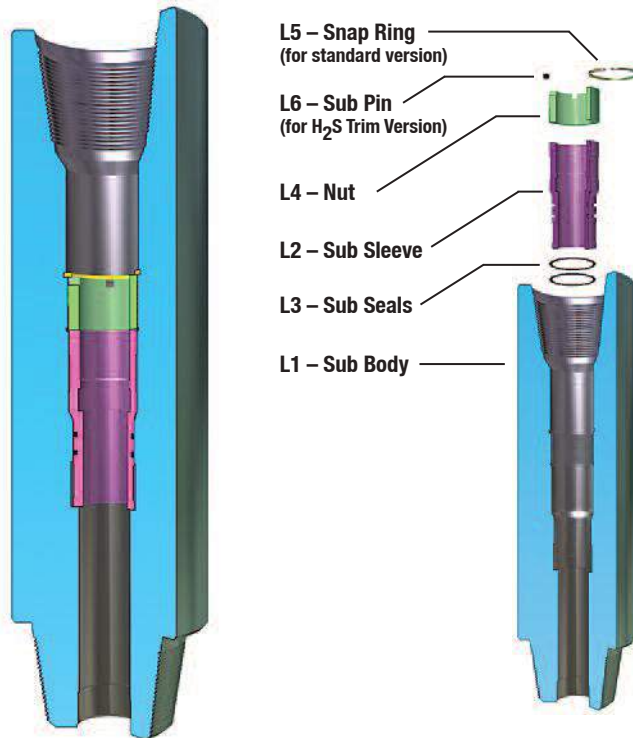


Figure 1 – Landing Sub
Cutaway View

Figure 2 – Landing Sub
Exploded View

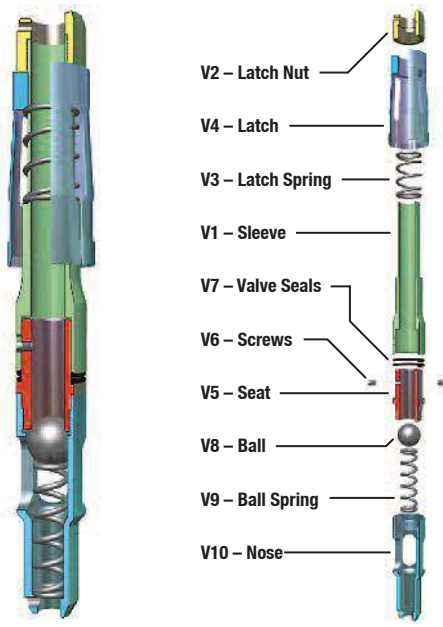


Figure 3 – Check Valve
Cutaway View

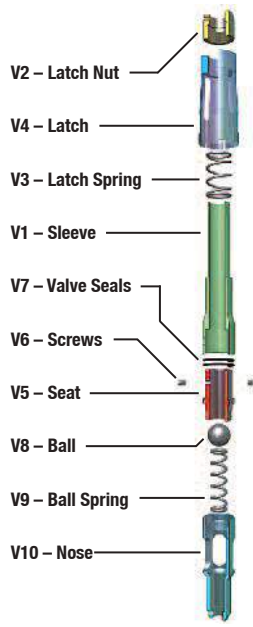


Figure 4 – Check Valve
Exploded View

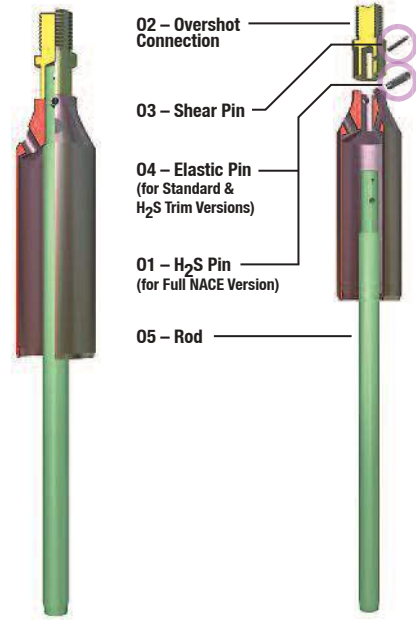


Figure 5 – Overshot
Cutaway View

Figure 6 – Overshot
Exploded View

Hydraulic Testing

Each RDCV is hydraulically bench tested according to API spec 7-1 (latest edition) and delivered with its individual pressure test records.

The tests are carried out in two steps:

- **SHELL TESTING** during which the valve is pressurized to the test pressure for 3 minutes, then depressurized and pressurized again for at least 10 minutes.
- **SEAT TESTING** during which the valve is pressurized from the pin end to its working pressure for at least 5 minutes.

During the pressure-holding period, timing shall start when pressure stabilization is achieved. No visually detectable leakage is permitted during the test time period and the pressure drop shall be no greater than maximum 1% of the pressure test value with a zero leak rate.

Valve Compatibility

In case the Check Valve has to be dropped into the drill string, the compatibility of Check Valve OD and KC2S free passage is a critical factor. The table to the right shows the compatibility between KC2S Kelly Cocks and Drop-in Check Valves:

RDCV	KELLY COCK REQUIRED	
SERIES	KC2S SERIES	
901	202	1-3/4 ID
902	203	2-1/8 ID
903	204	2-1/4 ID
904	204/205	2-1/4 ID
905	206	2-13/16 ID
906	207	3-1/16 ID
907	207	3-1/16 ID
908	208	3-1/4 ID

Operational Data

Standard Version								
ITEM	SERIES							
	901	902	903	904	905	906	907	908
Check Valve OD	1 9/32	1 25/32	2 5/32	2 15/64	2 15/32	2 27/32	3 3/64	3 7/64
Requested Drill String ID	1 11/32	1 27/32	2 7/32	2 19/64	2 17/32	2 29/32	3 7/64	3 11/64
Check Valve ID	3/8	5/8	3/4	7/8	1 1/8	1 3/8	1 9/16	1 11/16
Check Valve weight (lbs/kg)	5.3 / 2.4	6.6 / 3.0	15.4 / 7.0	19.0 / 8.6	24.4 / 11.0	28.2 / 12.8	32.7 / 14.8	38.0 / 15.8
Landing Sub Drift diameter	1 7/64	1 29/64	1 27/32	2 7/64	2 1/8	2 33/64	2 11/16	2 25/32
Overshot weight (lbs/kg)	1.3 / 0.6	3.8 / 1.7	4.8 / 2.2	5.8 / 2.6	8.8 / 4.0	9.3 / 4.2	10.1 / 4.6	11.0 / 5.0

Spare Parts and References

Standard Version								
ITEM	SERIES							
	901	902	903	904	905	906	907	908
Overshot	RD0901S001	RD0902S001	RD0903S001	RD0904S001	RD0905S001	RD0906S001	RD0907S001	RD0908S001
Check Valve	RDV901S001	RDV902S001	RDV903S001	RDV904S001	RDV905S001	RDV906S001	RDV907S001	RDV908S001
Landing Sub Sleeve Kit includes items L2 to L5	RDS901S001	RDS902S001	RDS903S001	RDS904S001	RDS905S001	RDS906S001	RDS907S001	RDS908S001
Seal Kit includes items V6x2, V7x2, V9	RDK901S001	RDK902S001	RDK903S001	RDK904S001	RDK905S001	RDK906S001	RDK907S001	RDK908S001

H ₂ S Service Version								
ITEM	SERIES							
	901	902	903	904	905	906	907	908
Overshot	RD0901S001	RD0902S001	RD0903S001	RD0904S001	RD0905S001	RD0906S001	RD0907S001	RD0908S001
Check Valve	RDV901H001	RDV902H001	RDV903H001	RDV904H001	RDV905H001	RDV906H001	RDV907H001	RDV908H001
Landing Sub Sleeve Kit includes items L2,L3,L4,L6	RDS901T001	RDS902T001	RDS903T001	RDS904T001	RDS905T001	RDS906T001	RDS907T001	RDS908T001
Seal Kit Includes items V6x2, V7x2, V9	RDK901H001	RDK902H001	RDK903H001	RDK904H001	RDK905H001	RDK906H001	RDK907H001	RDK908H001

Operational Benefits

RDCVs body and internal parts are made of high grade heat treated steel. Sealing is achieved through a metal to metal contact between a ball and a seat.

Two RDCV versions exist to suit all drilling environments:

- The standard version which is suitable for normal drilling conditions.
- The H₂S trim version which has been designed for H₂S environments in which the internal parts are made of corrosion resistant materials matching the NACE MR0175 standard (latest edition), fitted in a standard steel landing sub.

Kelly Cock – Series 201

Connection	Body OD	Passage ID / Series	Service	Pressure	Sh to Sh Length	Reboring Connection	Construction	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number	Repair kit without Tooling
NC 26	3-3/8	1-1/4 / 201	Standard	15	13	W/O	1 piece	26	12	KCA201S001	KCK201S023
NC31	4-1/4	1-1/4 / 201	Standard	15	13	W/O	1 piece	46	21	KCA201S113	KCK201S023
NC 26	3-3/8	1-1/4 / 201	H ₂ S TRIM	10	13	W/O	1 piece	26	12	KCA201T001	KCK201H023
NC31	4-1/4	1-1/4 / 201	H ₂ S TRIM	10	13	W/O	1 piece	46	21	KCA201T102	KCK201H023

Kelly Cock – Series 202

Connection	Body OD	Passage ID / Series	Service	Pressure	Sh to Sh Length	Reboring Connection	Construction	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number	Repair kit without Tooling
NC31	4-1/4	1-3/4 / 202	Standard	15	13	W/O	1 piece	40	18	KCA202S002	KCK202S023
NC38	4-3/4	1-3/4 / 202	Standard	15	13	W/O	1 piece	51	23	KCA202S001	KCK202S023
NC38	5	1-3/4 / 202	Standard	15	13	W/O	1 piece	57	26	KCA202S131	KCK202S023
NC31	4-1/4	1-3/4 / 202	H ₂ S TRIM	10	13	W/O	1 piece	40	18	KCA202T002	KCK202H023
NC38	4-3/4	1-3/4 / 202	H ₂ S TRIM	10	13	W/O	1 piece	51	23	KCA202T001	KCK202H023
NC38	5	1-3/4 / 202	H ₂ S TRIM	10	13	W/O	1 piece	57	26	KCA202T111	KCK202H023

Kelly Cock – Series 203

Connection	Body OD	Passage ID / Series	Service	Pressure	Sh to Sh Length	Reboring Connection	Construction	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number	Repair kit without Tooling
NC38	5	2-1/8 / 203	Standard	15	15	W/O	1 piece	60	27	KCA203S127	KCK203S102
NC38	5-1/4	2-1/8 / 203	Standard	15	15	W/O	1 piece	68	31	KCA203S128	KCK203S102
NC38	5-3/8	2-1/8 / 203	Standard	15	15	W/O	1 piece	73	33	KCA203S001	KCK203S023
NC40	5-1/4	2-1/8 / 203	Standard	15	15	W/O	1 piece	68	31	KCA203S129	KCK203S102
NC38	5	2-1/8 / 203	H ₂ S TRIM	10	15	W/O	1 piece	60	27	KCA203T106	KCK203H109
NC38	5-1/4	2-1/8 / 203	H ₂ S TRIM	10	15	W/O	1 piece	68	31	KCA203T107	KCK203H109
NC38	5-3/8	2-1/8 / 203	H ₂ S TRIM	10	15	W/O	1 piece	73	33	KCA203T001	KCK203H023
NC40	5-1/4	2-1/8 / 203	H ₂ S TRIM	10	15	W/O	1 piece	68	31	KCA203T108	KCK203H109
Upper Kelly Cocks											
4 1/2 REG LH	5-3/4	2-1/8 / 203	Standard	15	15	W/O	1 piece	86	39	KCA203S002	KCK203S023
4 1/2 REG LH	5-3/4	2-1/8 / 203	H ₂ S TRIM	10	15	W/O	1 piece	86	39	KCA203T002	KCK203H023

Kelly Cock – Series 204

Connection	Body OD	Passage ID / Series	Service	Pressure	Sh to Sh Length	Reboring Connection	Construction	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number	Repair kit without Tooling
NC46	6-1/4	2-1/4 / 204	Standard	15	15	W/O	1 piece	101	46	KCA204S103	KCK204S023
NC46	6-3/8	2-1/4 / 204	Standard	15	15	W/O	1 piece	106	48	KCA204S002	KCK204S023
NC50	6-3/8	2-1/4 / 204	Standard	15	15	W/O	1 piece	106	48	KCA204S001	KCK204S023
NC46	6-1/4	2-1/4 / 204	H ₂ S TRIM	10	15	W/O	1 piece	101	46	KCA204T101	KCK204H023
NC46	6-3/8	2-1/4 / 204	H ₂ S TRIM	10	15	W/O	1 piece	106	48	KCA204T002	KCK204H023
NC50	6-3/8	2-1/4 / 204	H ₂ S TRIM	10	15	W/O	1 piece	106	48	KCA204T001	KCK204H023

Kelly Cock – Series 205

Connection	Body OD	Passage ID / Series	Service	Pressure	Sh to Sh Length	Reboring Connection	Construction	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number	Repair kit without Tooling
NC46	6-5/8	2-7/16 / 205	Standard	15	16	W/O	1 piece	90	41	KCA205S002	KCK205S023
NC50	6-5/8	2-7/16 / 205	Standard	15	16	W/O	1 piece	101	46	KCA205S001	KCK205S023
NC46	6-5/8	2-7/16 / 205	H ₂ S TRIM	10	16	W/O	1 piece	90	41	KCA205T002	KCK205H023
NC50	6-5/8	2-7/16 / 205	H ₂ S TRIM	10	16	W/O	1 piece	101	46	KCA205T001	KCK205H023

Kelly Cock – Series 206

Connection	Body OD	Passage ID / Series	Service	Pressure	Sh to Sh Length	Reboring Connection	Construction	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number	Repair kit without Tooling
5 1/2 FH	7	2-13/16 / 206	Standard	15	16	W/O	1 piece	130	59	KCA206S123	KCK206S023
5 1/2 FH	7-1/4	2-13/16 / 206	Standard	15	16	W/O	1 piece	141	64	KCA206S003	KCK206S023
NC50	6-1/2	2-13/16 / 206	Standard	15	16	W/O	1 piece	106	48	KCA206S122	KCK206S023
NC50	6-5/8	2-13/16 / 206	Standard	15	16	W/O	1 piece	112	51	KCA206S001	KCK206S023
NC50	6-3/4	2-13/16 / 206	Standard	15	16	W/O	1 piece	117	53	KCA206S152	KCK206S023
NC50	7	2-13/16 / 206	Standard	15	16	W/O	1 piece	130	59	KCA206S101	KCK206S023
5 1/2 FH	7	2-13/16 / 206	H ₂ S TRIM	10	16	W/O	1 piece	130	59	KCA206T122	KCK206H026
5 1/2 FH	7-1/4	2-13/16 / 206	H ₂ S TRIM	10	16	W/O	1 piece	141	64	KCA206T003	KCK206H026
NC50	6-1/2	2-13/16 / 206	H ₂ S TRIM	10	16	W/O	1 piece	06	48	KCA206T102	KCK206H026
NC50	6-5/8	2-13/16 / 206	H ₂ S TRIM	10	16	W/O	1 piece	112	51	KCA206T001	KCK206H026
NC50	6-3/4	2-13/16 / 206	H ₂ S TRIM	10	16	W/O	1 piece	117	53	KCA206T121	KCK206H026
NC50	7	2-13/16 / 206	H ₂ S TRIM	10	16	W/O	1 piece	130	59	KCA206T123	KCK206H026
Upper Kelly Cocks											
6 5/8 REG LH	7-3/4	2-13/16 / 206	Standard	15	16	W/O	1 piece	170	77	KCA206S002	KCK206S023
6 5/8 REG LH	7-3/4	2-13/16 / 206	H ₂ S TRIM	10	16	W/O	1 piece	170	77	KCA206T002	KCK206H026

Kelly Cock – Series 207

Connection	Body OD	Passage ID / Series	Service	Pressure	Sh to Sh Length	Reboring Connection	Construction	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number	Repair kit without Tooling
5 1/2 FH	7-1/4	3-1/16 / 207	Standard	15	17	W/O	1 piece	137	62	KCA207S163	KCK207S023
5 1/2 FH	7-3/4	3-1/16 / 207	Standard	15	17	W/O	1 piece	165	75	KCA207S164	KCK207S023
6 5/8 FH	8	3-1/16 / 207	Standard	15	17	W/O	1 piece	183	83	KCA207S100	KCK207S023
6 5/8 FH	8-1/4	3-1/16 / 207	Standard	15	17	W/O	1 piece	198	90	KCA207S166	KCK207S023
6 5/8 FH	8-1/2	3-1/16 / 207	Standard	15	17	W/O	1 piece	214	97	KCA207S103	KCK207S023
6 5/8 REG	7-3/8	3-1/16 / 207	Standard	15	17	W/O	1 piece	143	65	KCA207S131	KCK207S023
6 5/8 REG	7-3/4	3-1/16 / 207	Standard	15	17	W/O	1 piece	165	75	KCA207S165	KCK207S023
6 5/8 REG	8	3-1/16 / 207	Standard	15	17	W/O	1 piece	183	83	KCA207S109	KCK207S023
5 1/2 FH	7-1/4	3-1/16 / 207	H ₂ S TRIM	10	17	W/O	1 piece	137	62	KCA207T100	KCK207H023
5 1/2 FH	7-3/4	3-1/16 / 207	H ₂ S TRIM	10	17	W/O	1 piece	165	75	KCA207T127	KCK207H023
6 5/8 FH	8	3-1/16 / 207	H ₂ S TRIM	10	17	W/O	1 piece	179	81	KCA207T102	KCK207H023
6 5/8 FH	8-1/4	3-1/16 / 207	H ₂ S TRIM	10	17	W/O	1 piece	198	90	KCA207T130	KCK207H023
6 5/8 FH	8-1/2	3-1/16 / 207	H ₂ S TRIM	10	17	W/O	1 piece	214	97	KCA207T131	KCK207H023
6 5/8 REG	7-3/8	3-1/16 / 207	H ₂ S TRIM	10	17	W/O	1 piece	143	65	KCA207T126	KCK207H023
6 5/8 REG	7-3/4	3-1/16 / 207	H ₂ S TRIM	10	17	W/O	1 piece	165	75	KCA207T128	KCK207H023
6 5/8 REG	8	3-1/16 / 207	H ₂ S TRIM	10	17	W/O	1 piece	179	81	KCA207T129	KCK207H023
Upper Kelly Cocks											
6 5/8 REG LH	7-3/4	3-1/16 / 207	Standard	15	16	W/O	1 piece	163	74	KCA207S002	KCK207S023
6 5/8 REG LH	7-3/4	3-1/16 / 207	H ₂ S TRIM	10	16	W/O	1 piece	163	74	KCA207T002	KCK207H023

Kelly Cock – Series 208

Connection	Body OD	Passage ID / Series	Service	Pressure	Sh to Sh Length	Reboring Connection	Construction	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number	Repair kit without Tooling
6 5/8 FH	8	3-1/4 / 208	Standard	15	17	W/O	1 piece	181	82	KCA208S102	KCK208S023
6 5/8 FH	8-1/2	3-1/4 / 208	Standard	15	17	W/O	1 piece	212	96	KCA208S101	KCK208S023
6 5/8 FH	8	3-1/4 / 208	H ₂ S TRIM	10	17	W/O	1 piece	181	82	KCA208T101	KCK208H026
6 5/8 FH	8-1/2	3-1/4 / 208	H ₂ S TRIM	10	17	W/O	1 piece	212	96	KCA208T102	KCK208H026
Upper Kelly Cocks											
6 5/8 REG LH	7-3/4	3-1/4 / 208	Standard	15	16	W/O	1 piece	157	71	KCA208S001	KCK208S023
6 5/8 REG LH	7-3/4	3-1/4 / 208	H ₂ S TRIM	10	16	W/O	1 piece	157	71	KCA208T001	KCK208H026

Kelly Cock – Series 209

Connection	Body OD	Passage ID / Series	Service	Pressure	Sh to Sh Length	Reboring Connection	Construction	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number	Repair kit without Tooling
8 5/8 REG	10	4-1/4 / 209	Standard	15	19	W/O	1 piece	313	142	KCA209S002	KCK209S023

I-BOP – Trim 1

Connection	OD	Passage ID / Series	Service	Sh to Sh Length	Pressure	Reboring Connection	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number	Seal Kit
NC26	3-3/8	1-1/2 / Trim 1	Standard	32	15	/	66	30	BVA1N2S001	BVK100S001
NC26	3-3/8	1-1/2 / Trim 1	H ₂ S Trim	32	10	W/O	66	30	BVA1N2T001	BVK100S001

I-BOP – Trim 2

Connection	OD	Passage ID / Series	Service	Sh to Sh Length	Pressure	Reboring Connection	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number	Seal Kit
NC31	4-1/4	1-3/4 / Trim 2	Standard	34	15	W/O	108	49	BVA2N3S100	BVK200S001
NC31	4-1/4	1-3/4 / Trim 2	H ₂ S Trim	34	10	W/O	108	49	BVA2N3T100	BVK200S001

I-BOP – Trim 3

Connection	OD	Passage ID / Series	Service	Sh to Sh Length	Pressure	Reboring Connection	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number	Seal Kit
NC38	4-3/4	2-1/4 / Trim 3	Standard	33	15	W/O	134	61	BVA3N5S001	BVK300S001
NC38	5	2-1/4 / Trim 3	Standard	33	15	W/O	157	71	BVA3N5S002	BVK300S001
NC38	5-1/4	2-1/4 / Trim 3	Standard	33	15	W/O	170	77	BVA3N5S113	BVK300S001
NC38	4-3/4	2-1/4 / Trim 3	H ₂ S Trim	33	10	W/O	134	61	BVA3N5T001	BVK300S001
NC38	5	2-1/4 / Trim 3	H ₂ S Trim	33	10	W/O	157	71	BVA3N5T002	BVK300S001
NC38	5-1/4	2-1/4 / Trim 3	H ₂ S Trim	33	10	W/O	170	77	BVA3N5T104	BVK300S001

I-BOP – Trim 4

Connection	OD	Passage ID / Series	Service	Sh to Sh Length	Pressure	Reboring Connection	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number	Seal Kit
5 1/2 FH	7	2-13/16 / Trim 4	Standard	37	15	W/O	340	154	BVA4F4S001	BVK400S001
5 1/2 FH	7-1/4	2-13/16 / Trim 4	Standard	37	15	W/O	368	167	BVA4F4S111	BVK400S001
5 1/2 FH	7-1/2	2-13/16 / Trim 4	Standard	37	15	W/O	401	182	BVA4F4S101	BVK400S001
6 5/8 FH	8	2-13/16 / Trim 4	Standard	41	15	W/O	520	236	BVA4F5S001	BVK400S001
NC46	6-1/4	2-13/16 / Trim 4	Standard	36	15	W/O	240	109	BVA4N8S001	BVK400S001
NC46	6-3/8	2-13/16 / Trim 4	Standard	36	15	W/O	254	115	BVA4N8S100	BVK400S001
NC50	6-1/2	2-13/16 / Trim 4	Standard	36	15	W/O	269	122	BVA4N9S001	BVK400S001
NC50	6-5/8	2-13/16 / Trim 4	Standard	36	15	W/O	278	126	BVA4N9S123	BVK400S001
NC50	6-3/4	2-13/16 / Trim 4	Standard	36	15	W/O	282	128	BVA4N9S124	BVK400S001
5 1/2 FH	7	2-13/16 / Trim 4	H ₂ S Trim	37	10	W/O	340	154	BVA4F4T001	BVK400S001
5 1/2 FH	7-1/4	2-13/16 / Trim 4	H ₂ S Trim	37	10	W/O	368	167	BVA4F4T104	BVK400S001
5 1/2 FH	7-1/2	2-13/16 / Trim 4	H ₂ S Trim	37	10	W/O	401	182	BVA4F4T105	BVK400S001
6 5/8 FH	8	2-13/16 / Trim 4	H ₂ S Trim	41	10	W/O	520	236	BVA4F5T001	BVK400S001
NC46	6-1/4	2-13/16 / Trim 4	H ₂ S Trim	36	10	W/O	240	109	BVA4N8T001	BVK400S001
NC46	6-3/8	2-13/16 / Trim 4	H ₂ S Trim	36	10	W/O	254	115	BVA4N8T100	BVK400S001
NC50	6-1/2	2-13/16 / Trim 4	H ₂ S Trim	36	10	W/O	269	122	BVA4N9T001	BVK400S001
NC50	6-5/8	2-13/16 / Trim 4	H ₂ S Trim	36	10	W/O	278	126	BVA4N9T107	BVK400S001
NC50	6-3/4	2-13/16 / Trim 4	H S Trim	36	10	W/O	282	128	BVA4N9T108	BVK400S001

RDCV – Series 901

Connection	Landing Sub OD	Check Valve OD / ID / Series / Landing Sub ID	Service	Pressure	Sh to Sh Length	Reboring Connection	Construction	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number
NC26	3-3/8	1-9/32 / 3/8 / 901 / 1-5/38	Standard	15	18	W/O	1 piece	42	19	RDA901S001
NC31	4-1/8	1-9/32 / 3/8 / 901 / 1-5/38	Standard	15	18	W/O	1 piece	64	29	RDA901S002
NC26	3-3/8	1-9/32 / 3/8 / 901 / 1-5/38	H ₂ S Trim	10	18	W/O	1 piece	64	29	RDA901T001
NC31	4-1/8	1-9/32 / 3/8 / 901 / 1-5/38	H ₂ S Trim	10	18	W/O	1 piece	64	29	RDA901T002

RDCV – Series 902

Connection	Landing Sub OD	Check Valve OD / ID / Series / Landing Sub ID	Service	Pressure	Sh to Sh Length	Reboring Connection	Construction	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number
NC31	4-1/8	1-25/32 / 5/8 / 902 / 1-29/64	Standard	15	19	W/O	1 piece	62	28	RD A902S001
NC38	4-3/4	1-25/32 / 5/8 / 902 / 1-29/64	Standard	15	19	W/O	1 piece	88	40	RD A902S002
NC38	5	1-25/32 / 5/8 / 902 / 1-29/64	Standard	15	19	W/O	1 piece	97	44	RD A902S113
NC31	4-1/8	1-25/32 / 5/8 / 902 / 1-29/64	H ₂ S Trim	10	19	W/O	1 piece	62	28	RD A902T001
NC38	4-3/4	1-25/32 / 5/8 / 902 / 1-29/64	H ₂ S Trim	10	19	W/O	1 piece	88	40	RD A902T002
NC38	5	1-25/32 / 5/8 / 902 / 1-29/64	H ₂ S Trim	10	19	W/O	1 piece	97	44	RD A902T105

RDCV – Series 903

Connection	Landing Sub OD	Check Valve OD / ID / Series / Landing Sub ID	Service	Pressure	Sh to Sh Length	Reboring Connection	Construction	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number
NC38	4-3/4	2-5/32 / 3/4 / 903 / 1-27/32	Standard	15	22	W/O	1 piece	93	42	RD A903S001
NC38	5	2-5/32 / 3/4 / 903 / 1-27/32	Standard	15	22	W/O	1 piece	104	47	RD A903S002
NC38	4-3/4	2-5/32 / 3/4 / 903 / 1-27/32	H ₂ S Trim	10	22	W/O	1 piece	93	42	RD A903T001
NC38	5	2-5/32 / 3/4 / 903 / 1-27/32	H ₂ S Trim	10	22	W/O	1 piece	104	47	RD A903T002

RDCV – Series 904

Connection	Landing Sub OD	Check Valve OD / ID / Series / Landing Sub ID	Service	Pressure	Sh to Sh Length	Reboring Connection	Construction	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number
NC46	6	2-15/64 / 7/8 / 904 / 2-11/64	Standard	15	24	W/O	1 piece	170	77	RD A904S002
NC50	6-5/8	2-15/64 / 7/8 / 904 / 2-11/64	Standard	15	24	W/O	1 piece	212	96	RD A904S112
NC46	6	2-15/64 / 7/8 / 904 / 2-11/64	H ₂ S Trim	10	24	W/O	1 piece	170	77	RD A904T002
NC50	6-5/8	2-15/64 / 7/8 / 904 / 2-11/64	H ₂ S Trim	10	24	W/O	1 piece	212	96	RD A904T101

RDCV – Series 905

Connection	Landing Sub OD	Check Valve OD / ID / Series / Landing Sub ID	Service	Pressure	Sh to Sh Length	Reboring Connection	Construction	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number
5 1/2 FH	7	2-15/32 / 2-17/32 / 905 / 2-1/8	Standard	15	24	W/O	1 piece	236	107	RD A905S127
NC46	6	2-15/32 / 2-17/32 / 905 / 2-1/8	Standard	15	24	W/O	1 piece	165	75	RD A905S001
NC50	6-1/2	2-15/32 / 2-17/32 / 905 / 2-1/8	Standard	15	24	W/O	1 piece	198	90	RD A905S002
NC50	6-5/8	2-15/32 / 2-17/32 / 905 / 2-1/8	Standard	15	24	W/O	1 piece	207	94	RD A905S103
5 1/2 FH	7	2-15/32 / 2-17/32 / 905 / 2-1/8	H ₂ S Trim	10	24	W/O	1 piece	236	107	RD A905T108
NC46	6	2-15/32 / 2-17/32 / 905 / 2-1/8	H ₂ S Trim	10	24	W/O	1 piece	165	75	RD A905T001
NC50	6-1/2	2-15/32 / 2-17/32 / 905 / 2-1/8	H ₂ S Trim	10	24	W/O	1 piece	198	90	RD A905T002
NC50	6-5/8	2-15/32 / 2-17/32 / 905 / 2-1/8	H ₂ S Trim	10	24	W/O	1 piece	207	94	RD A905T100

RDCV – Series 906

Connection	Landing Sub OD	Check Valve OD / ID / Series / Landing Sub ID	Service	Pressure	Sh to Sh Length	Reboring Connection	Construction	Approximate Weight [lbs]	Approximate Weight [kg]	Part Number
5-1/2 FH	7	2-27/32 / 1-3/8 / 906 / 2-33/64	Standard	15	25	W/O	1 piece	238	108	RD A906S104
5-1/2 FH	7-1/4	2-27/32 / 1-3/8 / 906 / 2-33/64	Standard	15	25	W/O	1 piece	258	117	RD A906S114
5-1/2 FH	7-1/2	2-27/32 / 1-3/8 / 906 / 2-33/64	Standard	15	25	W/O	1 piece	278	126	RD A906S122
5-1/2 FH	7-3/4	2-27/32 / 1-3/8 / 906 / 2-33/64	Standard	15	25	W/O	1 piece	300	136	RD A906S136
6-5/8 FH	8	2-27/32 / 1-3/8 / 906 / 2-33/64	Standard	15	25	W/O	1 piece	320	145	RD A906S100
6-5/8 REG	8	2-27/32 / 1-3/8 / 906 / 2-33/64	Standard	15	25	W/O	1 piece	320	145	RD A906S002
NC50	6-1/2	2-27/32 / 1-3/8 / 906 / 2-33/64	Standard	15	25	W/O	1 piece	198	90	RD A906S001
NC50	6-5/8	2-27/32 / 1-3/8 / 906 / 2-33/64	Standard	15	25	W/O	1 piece	212	96	RD A906S102
5-1/2 FH	7	2-27/32 / 1-3/8 / 906 / 2-33/64	H ₂ S Trim	10	25	W/O	1 piece	238	108	RD A906T115
5-1/2 FH	7-1/4	2-27/32 / 1-3/8 / 906 / 2-33/64	H ₂ S Trim	10	25	W/O	1 piece	258	117	RD A906T100
5-1/2 FH	7-1/2	2-27/32 / 1-3/8 / 906 / 2-33/64	H ₂ S Trim	10	25	W/O	1 piece	278	126	RD A906T116
5-1/2 FH	7-3/4	2-27/32 / 1-3/8 / 906 / 2-33/64	H ₂ S Trim	10	25	W/O	1 piece	300	136	RD A906T117
6-5/8 FH	8	2-27/32 / 1-3/8 / 906 / 2-33/64	H ₂ S Trim	10	25	W/O	1 piece	320	145	RD A906T101
6-5/8 REG	8	2-27/32 / 1-3/8 / 906 / 2-33/64	H ₂ S Trim	10	25	W/O	1 piece	320	145	RD A906T002
NC50	6-1/2	2-27/32 / 1-3/8 / 906 / 2-33/64	H ₂ S Trim	10	25	W/O	1 piece	198	90	RD A906T001
NC50	6-5/8	2-27/32 / 1-3/8 / 906 / 2-33/64	H ₂ S Trim	10	25	W/O	1 piece	212	96	RD A906T107

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