Model ROHL & ROHLA Ram Blowout Preventers

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FEATURES AND BENEFITS:

Operating temperature
Model ROHL & ROHLA Ram Blowout Preventers are available with API Temperature ratings of T0 (-0F ÷ 250F), T20 (-20F ÷ 250F) and T75 (-75F ÷ 250F).

Rams
The Ram Assembly combines toughness and a generous supply of self-feeding packing. Ram packers lock into place and are not dislodged by well flow. Top seals are standard for pipe, blind and variable rams. When rams are closed, pressure in the wellbore pushes them upward and inward, squeezing the ram rubbers more tightly against the sealing surfaces.

Free-floating rams
Free-floating rams prolong rubber life. When rams are open, they rest on narrow guide ribs and touch no other part of the ram cavity. Ram rubbers have no contact with the top of the cavity until the rams are nearly closed, which greatly reduces rubber wear.

Body
Body Ram Blowout Preventers can be provided in double configuration with either API flange or studded end connections, and studded side outlets. Hydraulic fluid passages are ported through the body, eliminating the need for external piping.

Hydraulically operated mechanism
Hydraulically operated mechanism is designed simple and trouble-free. There's just a single piston, for each ram. This piston is completely enclosed and protected by the cylinder. Control Flow's piston seals are the large lip-type made for use on moving parts.

Ram changing
One man can open the side cover to change the rams. The hydraulic lines are not disconnected during ram change. This feature eliminates the possibility of hydraulic fluid contamination.

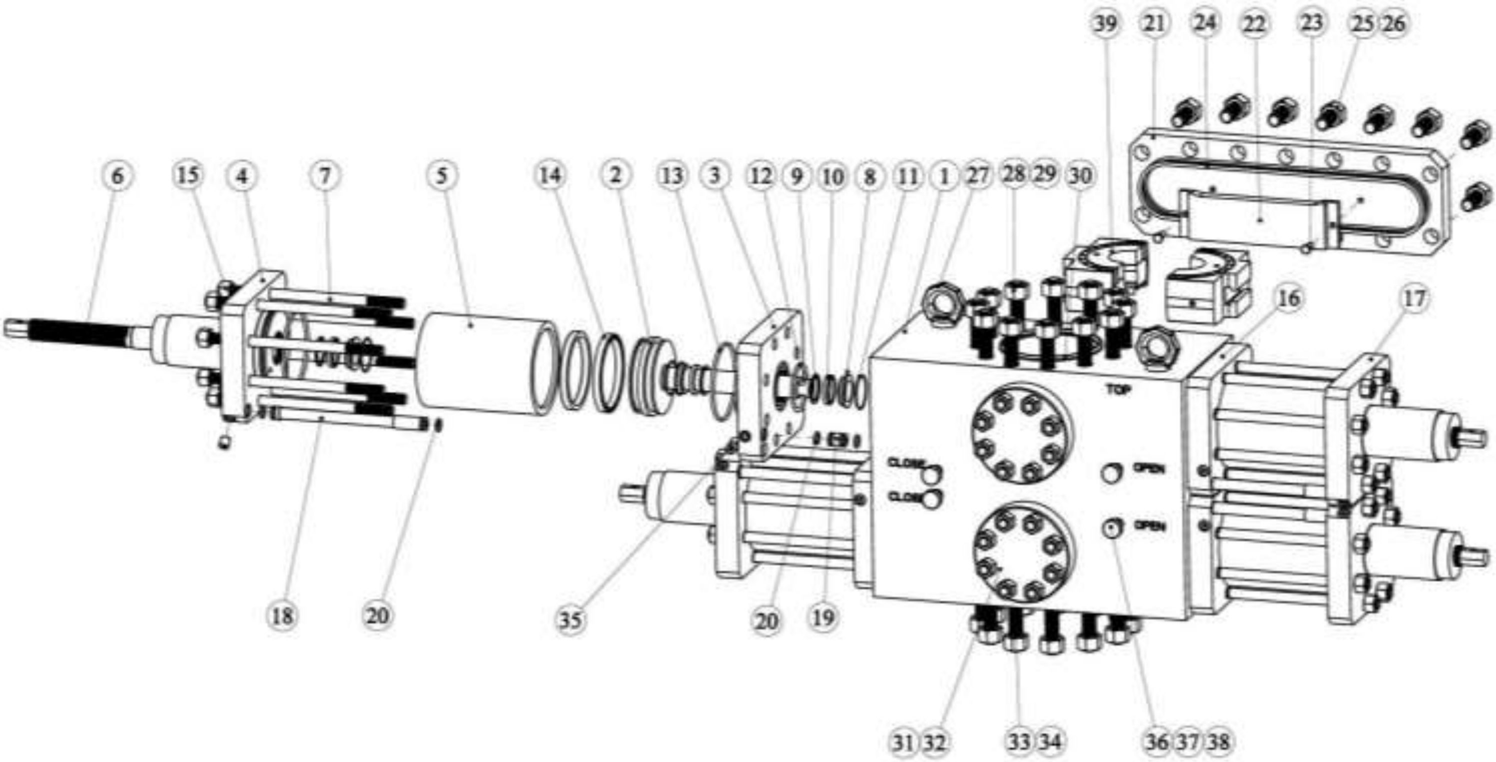
Manually operated locking mechanisms
Manually operated locking mechanisms lock the rams and hold the rams mechanically closed even when actuating pressure is released.

Hydraulic control connection
Quick hydraulic control connection for operation of rams. There are two 1" Wing Union for each set of rams.

GENERAL DESCRIPTION:

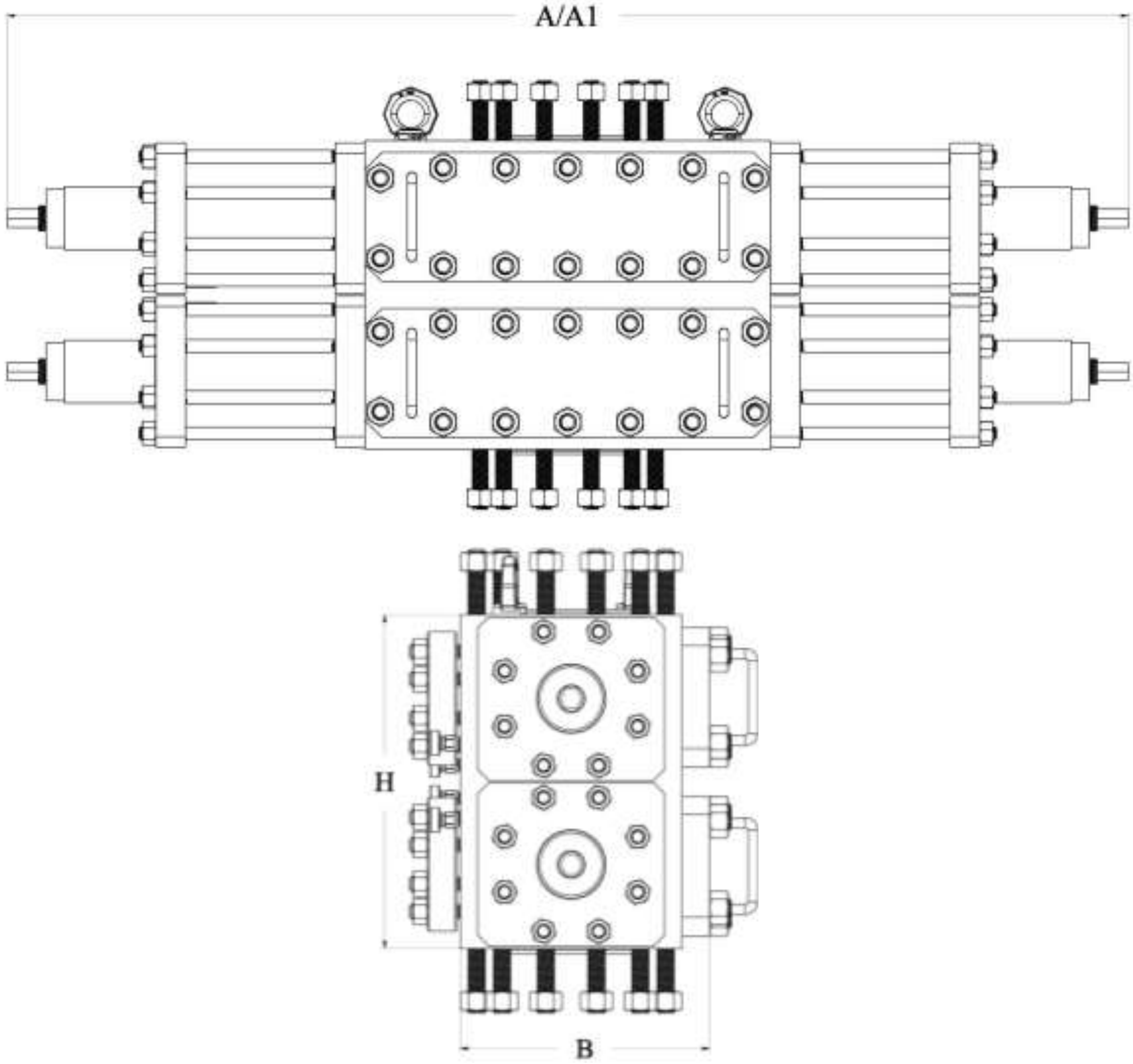
Model **ROHL & ROHLA** Ram Blowout Preventers used for drilling operations are designed to close the well and protect personnel and equipment by reliably stopping unexpected rash of oil, gas and drilling mud from the well bore. The Ram Blowout Preventers seal the annulus around drill pipes, casings, tubings or the hole when the strings of pipes, casings, tubings are out of hole.
Model **ROHL & ROHLA** Ram Blowout Preventers are available in bore sizes from 7 1/16" ÷ 11" and for 3000 and 5000 psi service. Operating pressure for hydraulic mechanisms is 1000 ÷ 3000 psi.
Model ROHL & ROHLA meet all current API 16A requirements, made for standard or sour service application.
ROHLA type BOP is the version of **ROHL** type BOP prepared for low temperature artic service.
ROHLA blowout preventers are provided with a steam heating system (SHS) and high quality isolation shell.

Main components:



Item	Description	Item	Description	Item	Description
1	Body	15	Nut	29	Nut
2	Piston	16	Lower flange	30	Ring gasket
3	Upper flange	17	Lower bonnet	31	Blind flange
4	Upper bonnet	18	Supply pipe	32	Ring gasket
5	Cylinder	19	Supply bush	33	Stud
6	Locking stem	20	”O”-ring	34	Nut
7	Threaded rod	21	Bonnet	35	Plug
8	Ring end	22	Guide	36	Special connector
9	Bottom ring	23	Bolt	37	Gasket
10	Stem packing	24	Gasket	38	Plug
11	Safety ring	25	Stud	39	Ram assembly
12	”O”-ring	26	Nut		
13	”O”-ring	27	Lifting ring		
14	Piston packing	28	Stud		

Dimensions:



Size	PN		Dimensions					
			A*	A1**	B	H		
						STD	STD & FE	FE
inch	bar	psi	mm	mm	mm	mm	mm	mm
7 1/16”	210	3000	2270	1990	385	600	740	880
7 1/16”	350	5000	2270	1990	385	600	785	970
9”	210	3000	2410	2160	475	780	940	1100
9”	350	5000	2410	2160	475	780	990	1200
11”	210	3000	2750	2350	575	860	1030	1200
11”	350	5000	2750	2350	575	860	1100	1340

*) Locking screws out
**) Locking screws in

STD – studded
FE – flange

Hydraulic fluid volume required to operate the blowout preventer:

Size	Max working pressure		Hydraulic fluid volume Ram assy. acting (1 set)	
inch	bar	psi	Close (Liters)	Open (Liters)
7 1/16”	210	3000	8,8	8,3
7 1/16”	350	5000	8,8	8,3
9”	210	3000	14,5	14,0
9”	350	5000	14,5	14,0
11”	210	3000	19.6	19.0
11”	350	5000	19.6	19.0
Maximum pressure: 210 bar (3000 psi) Recommended pressure: minimum 105 bar (1500 psi)				

Working environments:

Depending on the working environment, Ram Blowout Preventers are manufactured on the following two types:

Manufacturing alternative type	Working environment
TRIM STANDARD	Drilling fluids based on water or oilfield products with 212˚F (100˚C) maximum temperature.
TRIM NACE*	Drilling fluids based on water or oilfield products with H_2S content acc. third class of NACE-MR-01.75, with 212˚F (100˚C) maximum temperature.