



**CONTROL
FLOW
INC.**



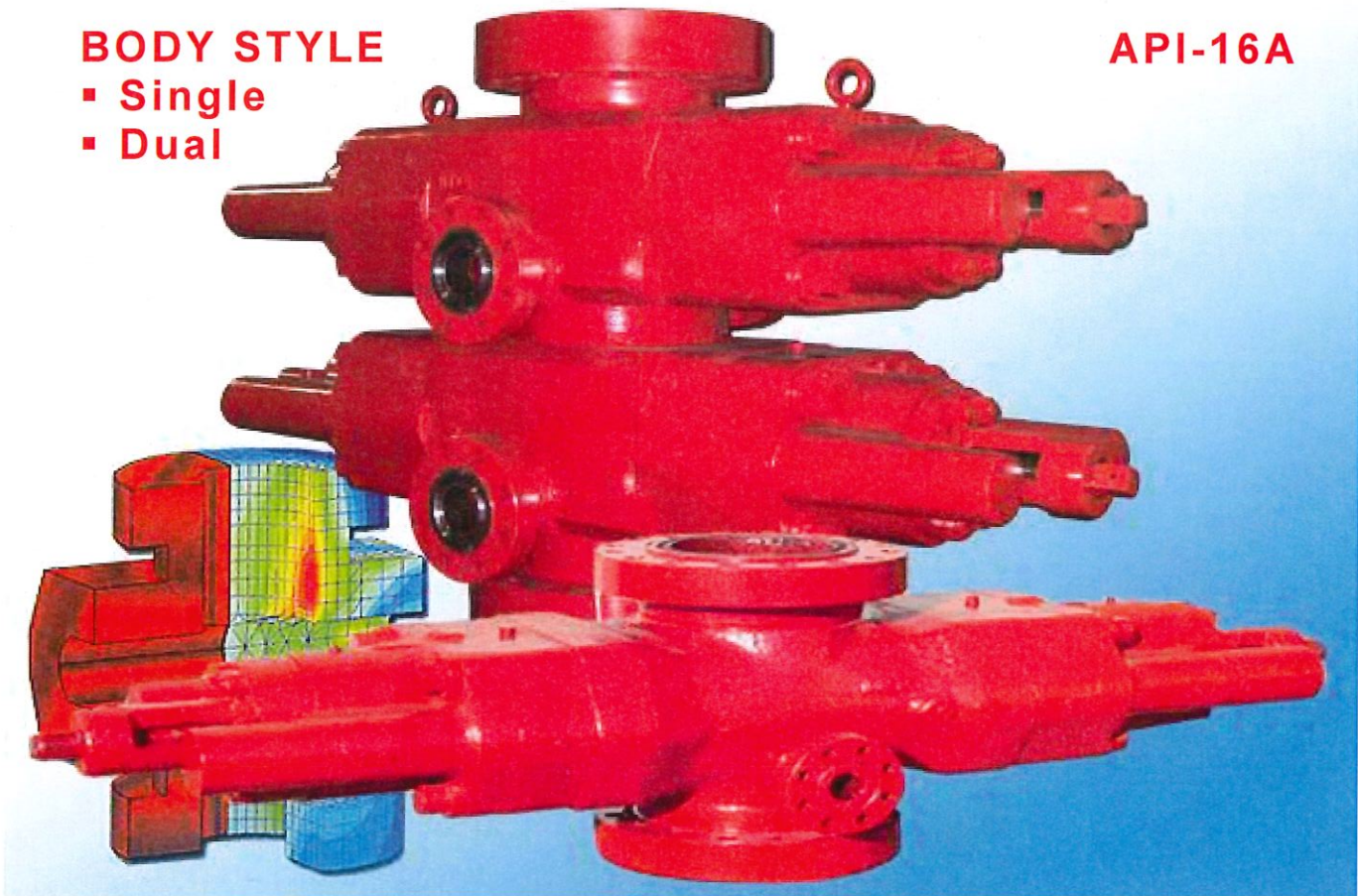
FLOCON MO-COMP **WESTECH** RETSCO

"Class U" Ram Blowout Preventer

BODY STYLE

- Single
- Dual

API-16A



Pipe Rams for Control Flow's "Class U" BOP's are available to fit a wide variety of tubing, drill pipe, drill collar, and casing sizes. All rams are suitable for H₂S sour gas per NACE MR-01 -75 specifications. The CFI "Class U" ram packers are self-feeding with a large reserve of elastomers to ensure a long-lasting seal under all conditions. Ram packers lock into place and cannot be dislodged by the well flow. Control Flow's Shearing Rams shear the pipe in the hole to allow quick sealing in the event of unexpected down hole pressure or conditions. Shearing capabilities for the CFI "Class U" BOP's vary with the style of rams, bonnets and/or boosters.

Control Flow/Flocon Products

Taming Drilling And Production Pressures Worldwide

Contact a Control Flow, Inc. sales representative for further detailed information

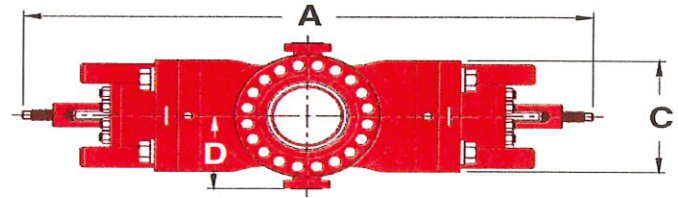
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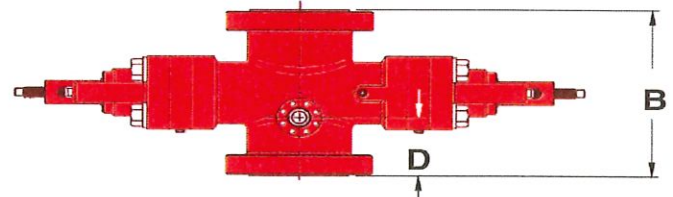
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SPECIFICATIONS

- A-1 Length, bonnets closed locking screws in
- A-2 Length, bonnets open, locking screws out
- A-3 Length, bonnets closed, with wedgelocks
- A-4 Length, bonnets open with wedgelocks
- B-1 Height, API flange single
- B-2 Height, clamp hub single
- C Width, no side outlets



Top View Single or Double

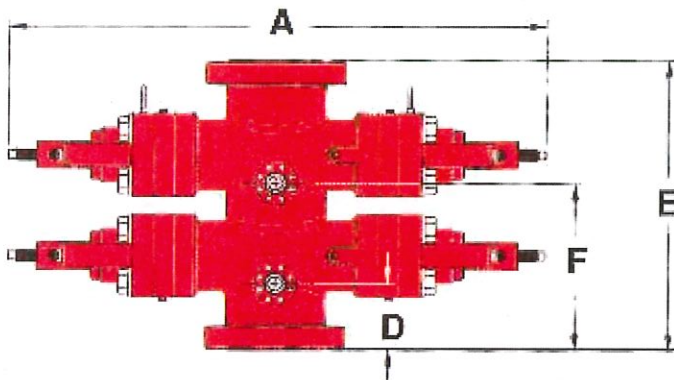


Side View - Single

Size	Working Pressure	Vertical Bore (in)	A-1	A-2	A-3	A-4	B-1	B-2	C	D-1	D-2	E-1	E-2	F-1	F-2	Single Approx. Weight (lb)	Double Approx. Weight (lb)
7 1/16"	3000	7.06	74.00	109.50	-	-	24.06	-	20.25	8.75	-	41.00	-	25.69	-	2,600	5,000
7 1/16"	5000	7.06	74.00	109.50	-	-	27.50	25.19	20.25	10.41	9.25	44.19	41.88	27.09	25.94	2,800	5,200
7 1/16"	10000	7.06	74.00	109.50	-	-	30.56	25.19	20.62	11.06	9.38	48.62	45.25	29.12	27.44	3,550	6,400
7 1/16"	15000	7.06	74.00	109.50	-	-	31.81	-	20.62	11.69	-	49.88	-	29.75	-	3,800	6,750
11"	3000	11.00	96.25	146.88	-	-	29.06	-	20.12	9.81	-	49.25	-	30.00	-	5,300	9,900
11"	5000	11.00	96.25	146.88	110.12	150.19	34.31	29.31	25.12	12.44	9.94	54.50	49.50	32.62	31.12	5,600	10,200
11"	10000	11.00	96.25	146.88	110.12	150.19	35.69	32.19	25.75	13.12	11.38	55.88	52.38	33.31	31.56	6,400	11,300
11"	15000	11.00	124.00	175.31	124.50	167.12	44.81	33.88	32.00	16.69	11.22	69.75	58.81	41.62	36.15	10,300	18,400
13 5/8"	3000	13.62	112.12	171.50	122.69	166.06	31.31	-	29.25	10.31	-	53.38	-	32.68	-	7,200	14,300
13 5/8"	5000	13.62	112.12	171.50	122.69	166.06	33.81	31.94	29.25	11.56	10.62	55.88	54.00	33.62	32.69	7,700	14,800
13 5/8"	10000	13.62	114.12	172.75	124.69	167.31	41.69	32.81	30.25	15.12	10.69	66.62	57.75	40.06	35.62	10,300	18,400
13 5/8"	15000	13.62	139.00	214.38	152.25	205.50	53.69	42.00	39.50	21.38	15.50	81.75	70.12	49.44	43.56	23,700	43,250
16 3/4"	3000	16.75	127.25	204.56	147.25	199.38	40.06	31.75	35.75	13.31	9.16	65.88	57.56	39.12	34.97	13,700	26,650
16 3/4"	5000	16.75	129.25	202.12	149.25	202.25	43.06	34.94	35.75	14.81	10.75	68.88	60.75	40.62	36.56	13,750	26,940
16 3/4"	10000	16.75	139.00	218.38	155.50	212.00	49.69	41.94	39.50	19.38	15.50	77.75	70.00	47.44	43.56	23,300	43,500
18 3/4"	10000	18.75	156.38	242.12	166.50	226.62	56.00	43.23	42.50	20.50	13.88	87.12	74.00	51.50	44.88	28,900	56,950
20 3/4"	3000	20.75	143.69	226.81	163.94	223.88	40.56	33.31	39.52	14.31	10.69	66.12	58.88	39.88	36.25	13,650	25,500
21 1/4"	2000	21.25	143.69	226.81	163.94	233.88	37.19	33.31	39.52	12.62	10.69	62.75	58.88	38.19	36.25	13,250	25,150
21 1/4"	5000	21.25	164.25	247.50	180.94	239.25	50.94	46.12	42.50	17.94	17.19	82.38	74.00	49.03	45.00	30,000	58,000
21 1/4"	10000	21.25	163.38	250.38	184.12	239.50	66.00	53.00	47.25	24.53	18.03	100.06	87.06	58.59	52.09	34,650	65,500
26 3/4"	3000	26.75	169.62	275.38	-	-	48.31	-	46.25	17.44	-	78.88	-	48.00	-	24,000	44,200

NOTE: All dimensions are in inches unless otherwise specified.

Table 1



Side View - Double

SPECIFICATIONS

- D-1 Center line of side outlet to bottom API flange
- D-2 Center line of side outlet to bottom of clamp hub
- E-1 Height, API flange outlet
- E-2 Height, clamp hub double
- F-1 Center line of upper side outlet to bottom flange
- F-2 Center line of upper side outlet to bottom hub