



## Technical Data Sheet: HSU 7-1/16" X 5,000 psi

All HEC HU Blowout Preventers are manufactured and tested according to HEC Quality Management Standards

**Part Number:** 75MHSU

**Performance Requirement Level:** PR1

**Through Bore:** 7-1/16"

**Rated Working Pressure:** 5,000 psi

**Rated Hydraulic Pressure:** 1,500 psi

Note: Hydraulic Pressure can be applied up to 3,000 psi. in emergency situations

**Pipe Diameter Ranges:** 2-1/16" to 5-1/2"

**Temperature Ranges:**

Metallic: -20 to 250°F

Elastomers: 20 to 200°F

**Assembly Weights and Dimensions:**

7-1/16" x 5M	Flange x Flange	Stud x Stud	Stud x Flange	Flange x Stud
Weight (lbs.) w/o Shear Bonnets	3,200	2,830	3,020	3,005
Height (in.)	27.5	13.75	21	20.25
Width, Bonnets Closed (in.) w/ locking screws Unlocked	85			
Width, Bonnets Closed (in.) w/ locking screws locked	77			
Width, Bonnets Open (in.) w/ locking screws unlocked	114			

-93 lbs. for Snubbing Style

**Operating Capacities:**

SIZE AND WORKING PRESSURE	GALLONS TO OPEN RAMS	GALLONS TO CLOSE RAMS	LOCKING SCREW TURNS (EACH END)	CLOSING RATIO	OPENING RATIO
7-1/16" 5M	1.3	1.4	19.5	6.9:1	2.9:1

**Minimum Operating Pressure For a low Pressure Seal (MOPFLPS):**

Ram Type	Operator Type		
	Standard	Tandem Booster	SD Booster
Blind	200	N/A	N/A
Pipe	250	N/A	N/A
VBR	750	N/A	N/A

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**Operating Pressure to effect a wellbore seal at rated working pressure:**

Ram Type	Operator Type		
	Standard	Tandem Booster	SD Booster
Blind	950	N/A	N/A
Pipe	1,000	N/A	N/A
VBR	1,500	N/A	N/A

**Elastomers:**

Acrylonitrile Butadiene Rubber (NBR)  
Nominal Operating Range: 20 to 200°F

**Test Results:**

- Ram Access: 200 cycles with 10 pressure cycles
- Fatigue Test: 546 open/close cycles, 78 pressure test
  - Ram Locking completed during fatigue testing
- Low Temperature Test: 3 pressure cycles at 20°F
- Hot Temperature Test: 10 pressure cycles and 1 hour hold time at 200°F
- Shear: Maximum shear pressure: 3000 psi.
  - Shear Doors with Tandem Boosters **must** be installed to shear pipe
- Hang Off
  - 7-1/16" HU Pipe Rams
    - Rated up to 450,000 lbs.
    - 3-1/2" test mandrel with 18° taper
  - Note: Do not recommend hanging off on the smallest size pipe for VBR rams
- Stripping
  - 7-1/16" HU
    - 3-1/2" test mandrel
    - 50,000 ft. of pipe stripped at 3,000 psi wellbore
  - Not Recommended on VBR's or flex packers