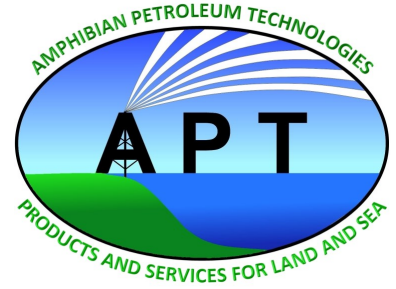


Shock Sub



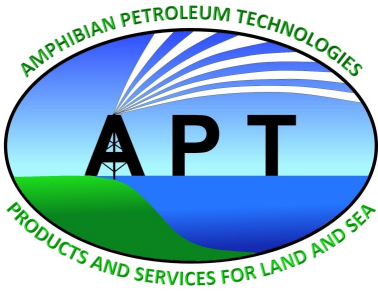
Hydraulic Shock Sub



Our HS subs are designed to be located near the bit. This type of shock sub helps to prolong the life of the bit by reducing axial and thrust load of the drill string. It protects the bottom hole assembly and tools at the surface. It is easily serviced and manufactured to have a long lasting life.

Specification and Performance Parameters

Type	O.D. in - (mm)	I.D. in - (mm)	Overall Stroke in - (mm)	Max. Working Torque lb-ft - (kN.m)	Max. Temperature Limits °F - (°C)	Connection API	Overall Length "Extended" in - (mm)
HS375	3 3/4 - (95)	1 1/2 - (38)	4 - (100)	10000 - (14)	302 - (150)	2 7/8REG	133.85 - (3400)
HS475	4 3/4 - (121)	1 1/2 - (38)	4 - (100)	17000 - (23)	302 - (150)	3 1/2REG	133.85 - (3400)
HS625	6 1/4 - (159)	2 - (50.8)	4 3/4 - (120)	35000 - (47)	302 - (150)	4 1/2XH	165.75 - (4210)
HS650	6 1/2 - (165)	2 - (50.8)	4 3/4 - (120)	40000 - (54)	302 - (150)	4 1/2XH	165.75 - (4210)
HS700	7 - (178)	2 1/4 - (57)	4 3/4 - (120)	40000 - (54)	302 - (150)	5XH	165.75 - (4210)
HS800	8 - (203)	2 13/16 - (71.4)	5 1/2 - (140)	67500 - (92)	302 - (150)	6 5/8REG	185.04 - (4700)
HS900	9 - (223)	2 13/16 - (71.4)	5 1/2 - (140)	92500 - (125)	302 - (150)	7 5/8REG	185.04 - (4700)
HS950	9 1/2 - (241)	2 13/16 - (71.4)	5 1/2 - (140)	94000 - (127)	302 - (150)	7 5/8REG	185.04 - (4700)
HS1100	11 - (279)	3 - (76.2)	5 1/2 - (140)	155000 - (210)	302 - (150)	8 5/8REG	185.04 - (4700)



Shock Sub

Mechanical Hydraulic Shock Sub



Our MHS subs are designed with disc and hydraulic two way action. This type of shock sub helps to maintain weight on bit by reducing bounce. It is easily serviced and manufactured to have a long lasting life.

Specification and Performance Parameters

Type	O.D. in - (mm)	I.D. in - (mm)	Overall Stroke in - (mm)	Max. Working Torque lb-ft - (kN.m)	Max. Temp. Limits °F - (°C)	Connection API	Overall Length "Extended" in - (mm)
MHS475	4 3/4 - (121)	1 1/2 - (38)	4 - (100)	15000 - (20)	302 - (150)	3 1/2 REG	133.85 - (3400)
MHS625	6 1/4 - (159)	2 - (50.8)	4 3/4 - (120)	45000 - (61)	302 - (150)	4 1/2 XH	165.75 - (4210)
MHS650	6 1/2 - (165)	2 - (50.8)	4 3/4 - (120)	45000 - (61)	302 - (150)	4 1/2 XH	165.75 - (4210)
MHS700	7 - (178)	2 1/4 - (57)	4 3/4 - (120)	50000 - (68)	302 - (150)	5XH	165.75 - (4210)
MHS800	8 - (203)	2 13/16 - (71.4)	5 1/2 - (140)	75000 - (102)	302 - (150)	6 5/8 REG	185.04 - (4700)
MHS900	9 - (223)	2 13/16 - (71.4)	5 1/2 - (140)	82500 - (112)	302 - (150)	7 5/8 REG	185.04 - (4700)
MHS950	9 1/2 - (241)	2 13/16 - (71.4)	5 1/2 - (140)	94000 - (127)	302 - (150)	7 5/8 REG	185.04 - (4700)
MHS1100	11 - (279)	3 - (76.2)	5 1/2 - (140)	135000 - (183)	302 - (150)	8 5/8 REG	185.04 - (4700)