



DS SHOCK ABSORBER SUB

CHE double-way hydraulic shock absorbers (DS) are designed to simultaneously absorb and eliminate vertical and horizontal vibration downhole. It reduces vibrational damage to drill bit, BHA, drill string and surface equipment, increasing ROP and reducing drilling cost.

Features / Benefits

- + Improves penetration rate (ROP) by ensuring optimum WOB and RPM
- + Minimizes vibration impact on rig equipment
- + Improves BHA and bit service life
- + Prolong Drilling String connections life
- + Enables faster drilling and lower drilling cost
- + Minimizes hole deviation by absorbing vibration and keeping



Specifications

English Units

Model	DS475	DS625	DS650	DS675	DS800	DS900	DS950
O.D. (in)	4 3/4'	6 1/4'	6 1/2'	6 3/4'	8'	9'	9 1/2'
I.D. (in)	1.50'	1.85'	1.85'	2.25'	2.5'	2.80'	2.80'
Max. Stroke (in)	4.33	4.72	4.72	3.94	4.72	4.72	4.72
Ambient Temperature (°F)	-40~302	-40~302	-40~302	-40~302	-40~302	-40~302	-40~302
Max. Torque (ft-lbs)	7,376	11,065	11,065	11,065	14,752	14,752	14,752
Max. Weight on Bit (lbs)	45,000	76,500	76,500	90,000	107,910	121,400	121,400
Tensile Load (lbs)	224,808	337,215	337,215	337,215	440,626	440,626	440,626
Pull-Down Overall Length (in)	177	205	205	221	220	215	215
Connections	NC38	NC46	NC50	NC50	6 5/8REG	7 5/8REG	7 5/8REG
Weight (lb)	705	1,212	1,322	1,543	2,205	2,866	3,306

SI Units

Model	DS475	DS625	DS650	DS675	DS800	DS900	DS950
O.D. (mm)	121	160	165	178	203	229	241
I.D. (mm)	38	47	47	57	64	71	71
Max. Stroke (mm)	110	120	120	100	120	120	120
Ambient Temperature (°C)	-40~150	-40~150	-40~150	-40~150	-40~150	-40~150	-40~150
Max. Torque (kN.m)	10	15	15	15	20	20	20
Max. Weight on Bit (kN)	200	340	340	400	480	540	540
Tensile Load (kN)	1,000	1,500	1,500	1,500	1,960	1,960	1,960
Pull-Down Overall Length (mm)	4 490	5 193	5 193	5 620	5 586	5 460	5 460
Connections	NC38	NC46	NC50	NC50	6 5/8REG	7 5/8REG	7 5/8REG
Weight (kg)	320	550	600	700	1,000	1,300	1,500