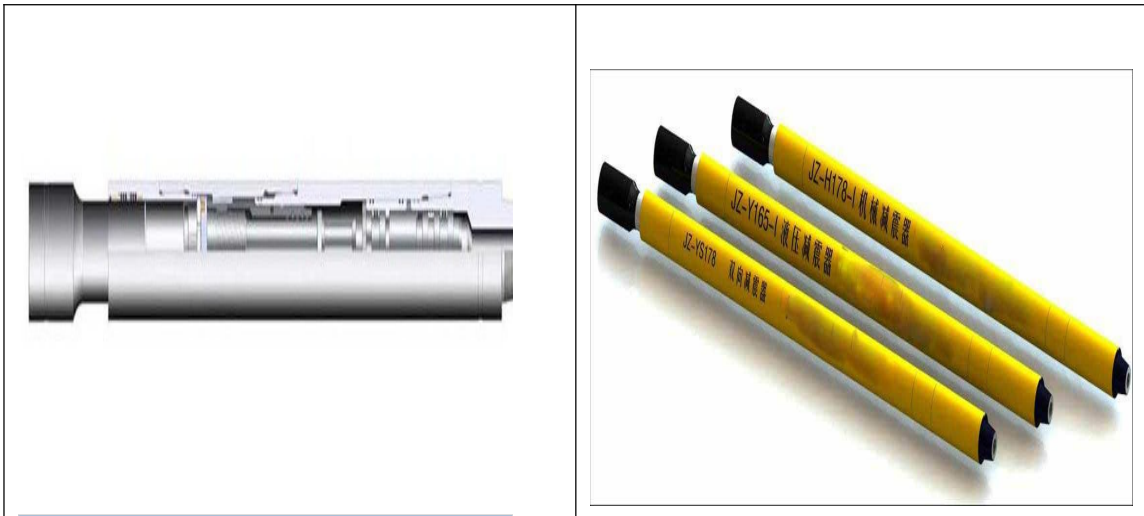


## Absorber

A shock absorber — often just called a "shock" — is a mechanical apparatus whose primary purpose is to cushion movements and impacts. It is often found in automobiles, where it is used to provide a smoother ride. In construction, a shock absorber is commonly called a damper. It serves as a safety measure to help minimize a structure's movement caused by natural forces such as strong winds and earthquakes. Shock absorbers work by absorbing excess kinetic energy usually resulting from sudden or strong movement. The kinetic energy is then discharged by storing or transforming it into another form of energy. Absorption and dissipation of energy varies depending on the type of shock absorber used.

### General Features



ZQ series Absorbers (Bumper) are kind of drilling tool that effects shock absorption. Suitable for onshore or offshore drilling operations.

### Details

The JZQ series Absorbers (Bumper) were developed to provide the market with more reliable technology and more hoisting performance. Absorber is one kind of drilling tool that effects shock absorption by depending on hydraulic oil under external force through elastic deformation and damping. Featured with simple structure, easy to operate and reliable quality. Included but not limited by the advantages mentioned, JZQ series Absorbers (Bumper) might be your best choice.

## General Features

- Suitable for cold area and desert environment
- Suitable for onshore or offshore rigs
- Various size available for different operation requirement

## Main aramaters

Outside Diameter: 4-3/4" – 7-5/8" (121 mm – 229 mm)

## Parameters:

One-way Shock Absorber

Model	O. D. (mm)	I. D. (mm)	Max. Stroke (mm)	Ambient Temp. (°C)	Max. Bit Weight (kN)	Tensile Load (kN)	Pull-down Overall Length (mm)	Thread Conn.
JZQ121C	121	38	121	-40~150	265	1,000	3,950	NC38
JZQ160C	160	47	120	-40~150	343	1,500	3,980	NC46
JZQ178C	178	57	120	-40~150	392	1,500	3,800	NC50
JZQ203C	203	64	150	-40~150	490	2,000	4,100	6-5/8 REG
JZQ229C	229	70	150	-40~150	535	2,000	3,820	7-5/8 REG

Double-way Shock Absorber

Model	O. D. (mm)	I. D. (mm)	Max. Stroke (mm)	Ambient Temp. (°C)	Max. Torque (kN. m)	Max. Bit Weight (kN)	Tensile Load (kN)	Pull-down Overall Length (mm)	Thread Conn.
JZQ121B	121	38	120	-40~150	10	200	1,000	5,300	3-1/2 REG
JZQ160B	160	45	120	-40~150	15	340	1,500	5,252	NC46
JZQ178B	178	57	120	-40~150	15	400	1,500	5,350	NC50
JZQ203B	203	64	120	-40~150	20	480	1,960	5,853	6-5/8 REG
JZQ229B	229	71	120	-40~150	20	540	1,960	5,900	7-5/8 REG