SAMAVICH
TECHNOLOGIES

TECHNICAL DATASHEET

# SC shock absorbers

Rotary & DTH drilling · Models SC25 – SC100




Samavich SC shock absorbers are designed for rotary and down-the-hole (DTH) drill strings. They reduce shock and vibration, protecting the rotary head, the drill bit and the other drill-string components. All models are available with the optional Safe-Lock.

## Benefits

01 Reduces the shock and vibration transmitted to the rotary head, safeguarding it from premature failure.

02 The floating piston allows axial travel, protecting the threads during make-up and break-out.

03 Uniform pressure on the bit increases bit life and enables faster penetration rates.

04 Durable, maintenance-free design — at least six months without upkeep (actual life depends on mine conditions).

05 Optional Safe-Lock removes welding between the rotary head shaft and the shock absorber, and between the shock absorber and the top adapter.

06 Absorbs the majority of shocks and vibrations for smooth drilling operations.

07 Supports both angled and vertical drilling.

08 Compatible with both rotary and DTH drilling applications.

## Specifications

| MODEL | SC25 | SC50 | SC75 | SC100 |
|---|---|---|---|---|
| Application | Rotary and DTH | Rotary and DTH | Rotary and DTH | Rotary and DTH |
| Rig pulldown | Up to 30,000 lbf<br>up to 133 kN | 25,000 – 55,000 lbf<br>111–245 kN | 50,000 – 80,000 lbf<br>222–356 kN | 80,000 – 110,000 lbf<br>356–489 kN |
| Approx. weight | 60 kg | 95 kg | 150 kg | 250 kg |
| Dimensions | See page 2 | | | |

### Compatible rigs

**SC25**
DI650i · D65

**SC50**
DR410i · D25KX · D245X · D45KS · D50KS · D55SP · DM30 · DM45 · DM50

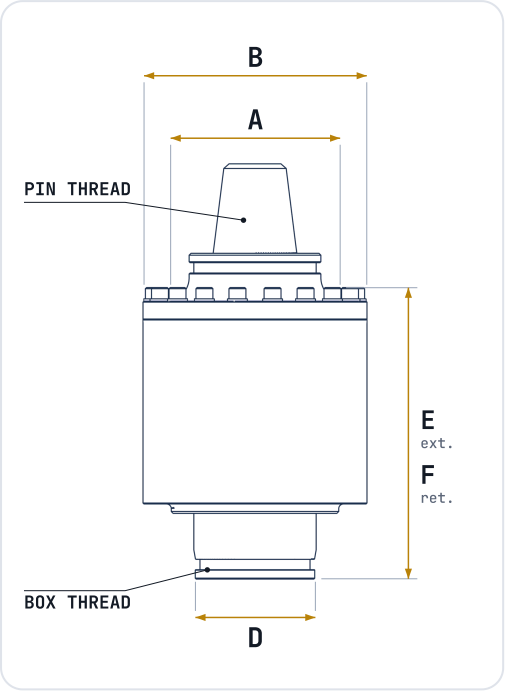
**SC75**
DR411i · D75KX · DML · PV231 · PV235 · PV271 · PV275 · DM75

**SC100**
DR412i · DR413i · PV291 · DM-M3


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DIMENSIONS

# Dimensions and ordering details




| INCH (MM) | SC25 | SC50 | SC75 | SC100 |
|---|---|---|---|---|
| A — pin end | 4.5" 114 mm | 6" 152 mm | 7" 178 mm | 8" 203 mm |
| B — housing | 9" 229 mm | 10" 254 mm | 11" 279 mm | 14" 356 mm |
| D — box end | 4.5" 114 mm | 6" 152 mm | 7" 178 mm | 8" 203 mm |
| E — extended | 15" 381 mm | 16" 406 mm | 17" 432 mm | 22" 559 mm |
| F — retracted | 13.5" 343 mm | 14.5" 368 mm | 15.5" 394 mm | 20" 508 mm |
| Pin thread | As per rig | As per rig | As per rig | As per rig |
| Box thread | As per rig | As per rig | As per rig | As per rig |

All details are approximate and will change to suit the application.

## Ordering details

Please provide the following so we can recommend the right model and threads:

RIG MODEL

ROTARY HEAD THREAD

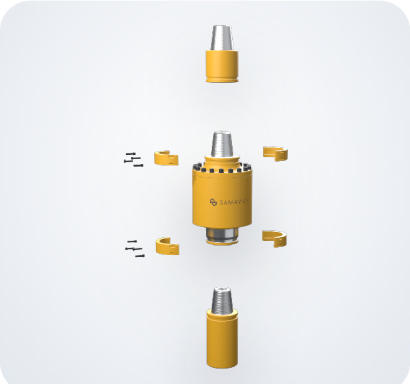
ROTARY HEAD SHAFT DIAMETER

TOP SUB DIAMETER

TOP SUB THREAD

POSSIBLE SHOCK-SUB LENGTH (E)

POSSIBLE HOUSING DIAMETER



OPTIONAL FEATURE

## Safe-Lock

- No welding between the rotary head bull shaft and the shock absorber.
- No welding between the shock absorber and the top adapter.
- Easy and quick assembly.
- Light weight, easy to handle.


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