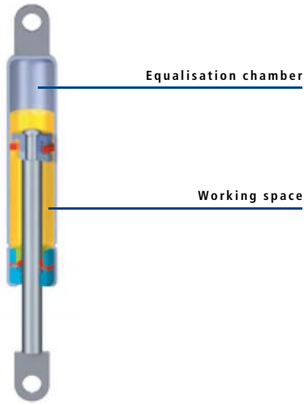
Product Overview
STAB-O-SHOC HD15/GD15

STAB-O-SHOC HD15

The standard STAB-O-SHOC is a mounting position-dependent, non-pressurised oil hydraulic damper. Preferably it is installed vertically.
Direct force transmission without a return stroke is only possible in one direction of motion.
What is special about this so-called "plunger damper" is its simple structure.

- Damping force max. 800 N
- Damping forces one-sided, in special cases on both sides
- Non-pressurised, no push-out force
- Return stroke, delayed damping
- Position-dependent mounting, with piston rod down or up

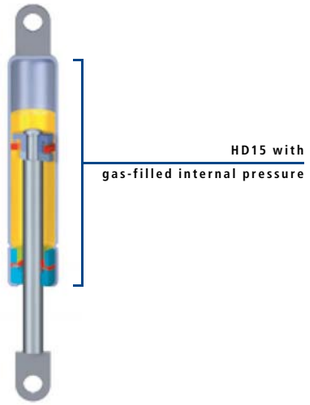


Applications:
- Glove compartment
- Bar cabinets
- Kitchen cabinets
- Storage shelves
- Regulating dampers (vibration dampers) for injection pumps and various machines
- Lid dampers

STAB-O-SHOC GD15
Gas damper

In addition to the standard STAB-O-SHOC, this gas damper also has an increased internal pressure. The resulting push-out force extends the piston rod automatically.
In the compression direction, the damping force increases by the amount of the push-out force.

- Damping force max. 800 N
- Damping forces one-sided, in special cases on both sides
- With push-out force
- Return stroke, delayed damping
- Position-dependent mounting, with piston rod down or up

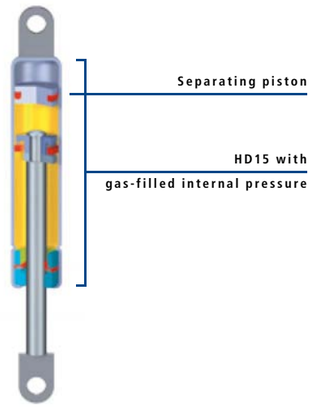


Applications:
- Seat damper (horizontal vibration load)
- Consoles
- Light doors
- Roof dampers, e.g., convertible tops
- Foot-operated parking brakes

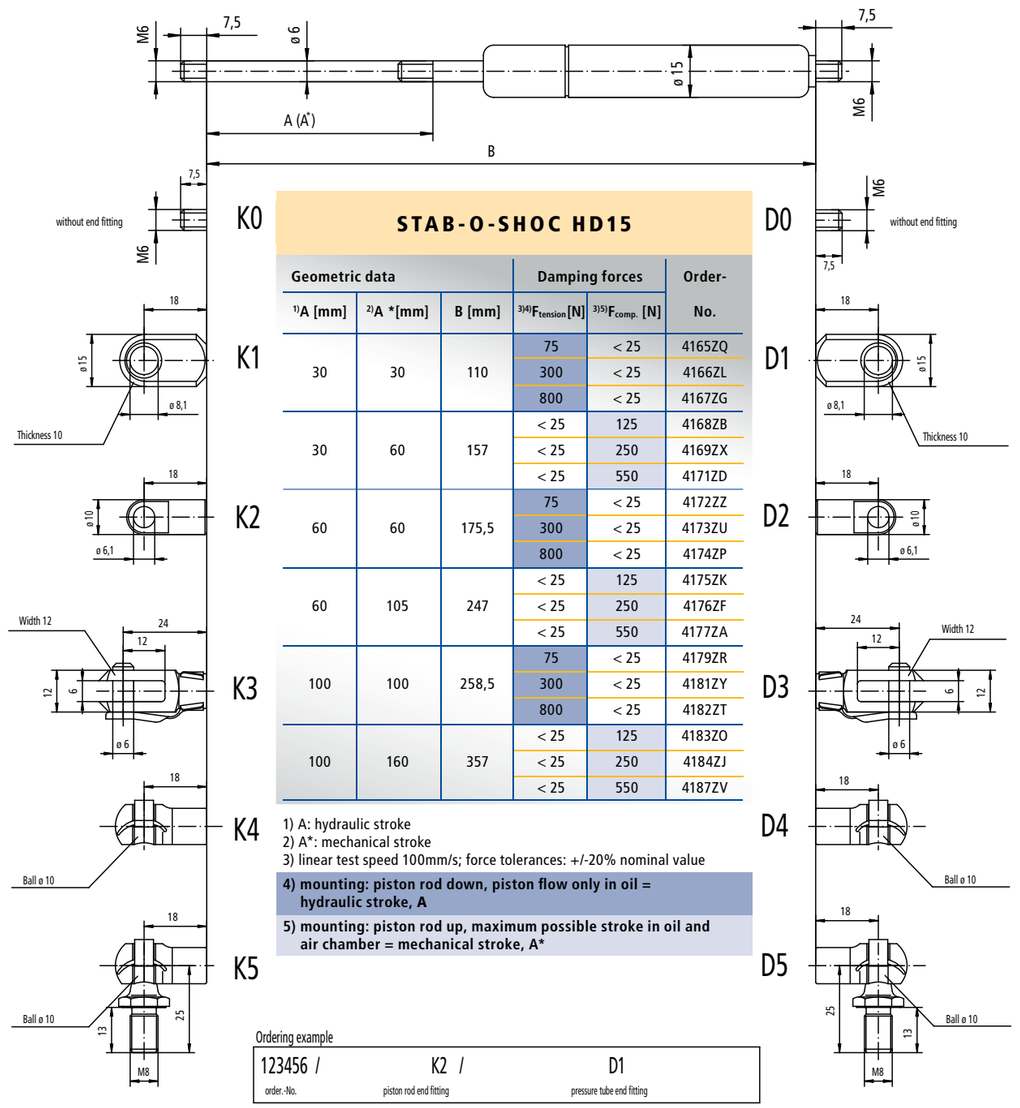
STAB-O-SHOC GD15SP
Gas damper with separating piston

A separating element divides the work chamber and equalisation chamber. This provides force transmission without a return stroke in both directions of motion. The damper is under increased internal pressure.

- Damping force max. 800 N
- Damping forces on one or both sides
- With push-out force
- No return stroke, direct instant damping
- Position-independent mounting, installation of piston rod in any orientation



Applications:
- Seat damper (horizontal vibration load)
- Consoles
- Light doors
- Machine tools



STAB-O-SHOC HD15

Geometric data			Damping forces		Order-No.
1)A [mm]	2)A *[mm]	B [mm]	3)4)$F_{tension}$ [N]	3)5)$F_{comp.}$ [N]	
30	30	110	75	< 25	4165ZQ
			300	< 25	4166ZL
			800	< 25	4167ZG
30	60	157	< 25	125	4168ZB
			< 25	250	4169ZX
			< 25	550	4171ZD
60	60	175,5	75	< 25	4172ZZ
			300	< 25	4173ZU
			800	< 25	4174ZP
60	105	247	< 25	125	4175ZK
			< 25	250	4176ZF
			< 25	550	4177ZA
100	100	258,5	75	< 25	4179ZR
			300	< 25	4181ZY
			800	< 25	4182ZT
100	160	357	< 25	125	4183ZO
			< 25	250	4184ZJ
			< 25	550	4187ZV

1) A: hydraulic stroke
2) A*: mechanical stroke
3) linear test speed 100mm/s; force tolerances: +/-20% nominal value

4) mounting: piston rod down, piston flow only in oil = hydraulic stroke, A

5) mounting: piston rod up, maximum possible stroke in oil and air chamber = mechanical stroke, A*

Ordering example

123456 /	K2 /	D1
order.-No.	piston rod end fitting	pressure tube end fitting

Installation according to STAB-Spec.10145882 / Dimensions in mm / We reserve the right to make modifications


eyelet D1


eyelet D2


clevis D3


ball socket D4


ball stud