

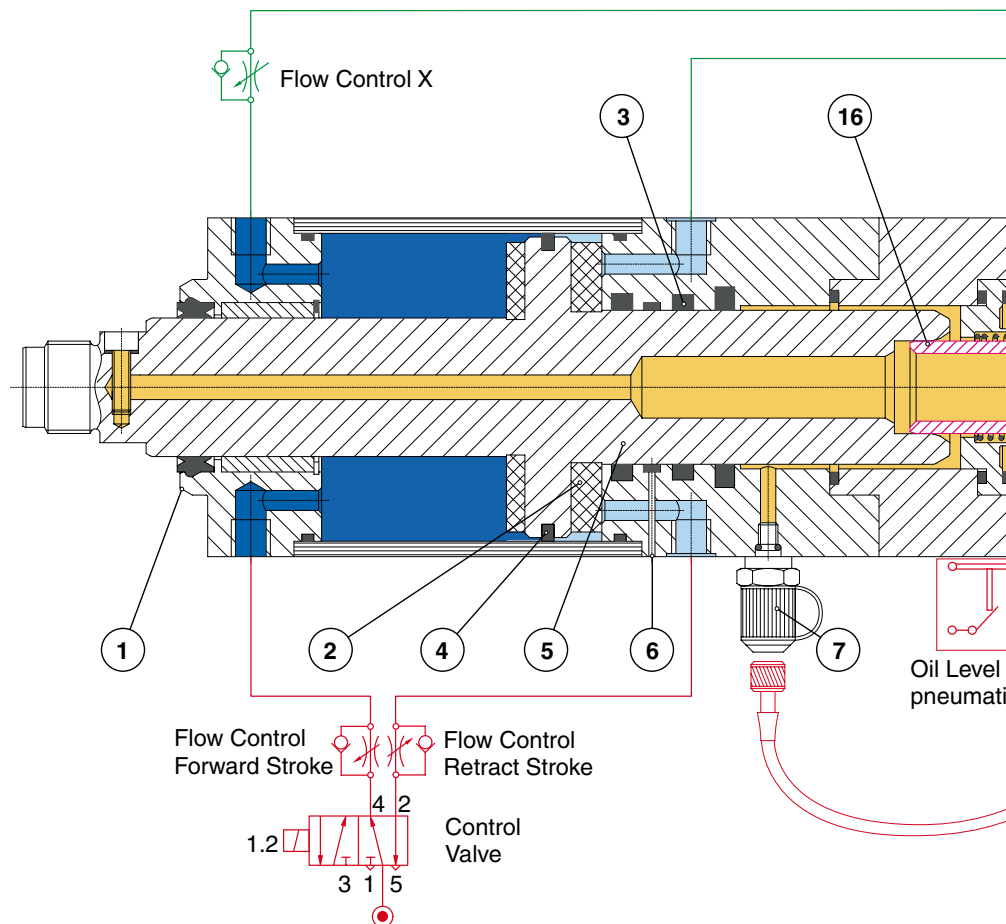
TOX®-Powerpackage – Simple to handle like a Pneumatic

The Power in Detail

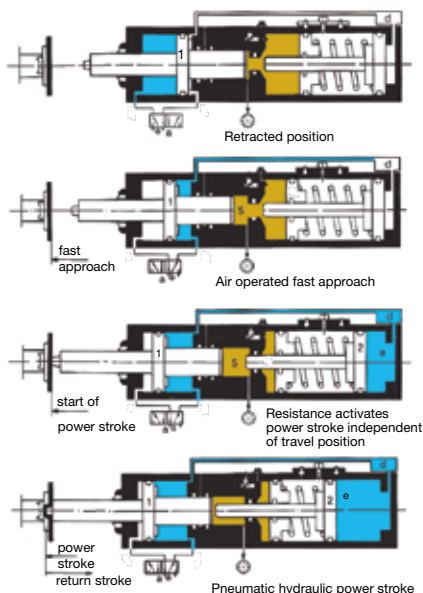
The TOX®-Powerpackage is a completely integrated power drive. The different configurations and the specially developed accessories make it universally adaptable. In special applications, such as spotwelding, the TOX®-Powerpackage is optimized according to your requirement.

Developed to the smallest detail:
More than 150.000 successful worldwide applications have proven it.

- ① The TOX®-Powerpackage is mounted at the accurately fitting flange with easy fastening options. Thus the TOX®-Powerpackage is exactly fixed.
- ② The working rod is cushioned in both end positions with long-life cushions; this is the key to smooth operation, even at high frequencies.
- ③ The seals have been optimized through extensive endurance testing.
- ④ Special seals allow for operation with non-lubricated compressed air.



Functioning of the TOX®-Powerpackage



Fast approach – the main control valve (a) is switched. The working piston (1) extends, initially with a fast approach stroke, until it meets resistance at any point. It stops and the integrated power stroke valve (d) is shifted.

Power stroke – the intensifier piston (2) closes the high pressure chamber (5) and compresses the oil in the working area up to 400 bar. This oil pressure applies pressure to the back of the working piston (1) and triggers the power stroke.

Return stroke – after the changeover of the main control valve (a) the power stroke valve (d) automatically vents the chamber (e). The intensifier piston (2) and the working piston (1) return to their initial position one after the other.

⑤ The TOX®-Powerpackage delivers high forces in a compact design. The double supported working rod has enormous significance for tolerating the most rugged working environments.

⑥ The absolute air/oil separation is the reason for low maintenance, high stroke frequencies and trouble-free operation. An annular groove, between the seals separating the air and oil sections and vented to the atmosphere, prevents the air from mixing with the oil.