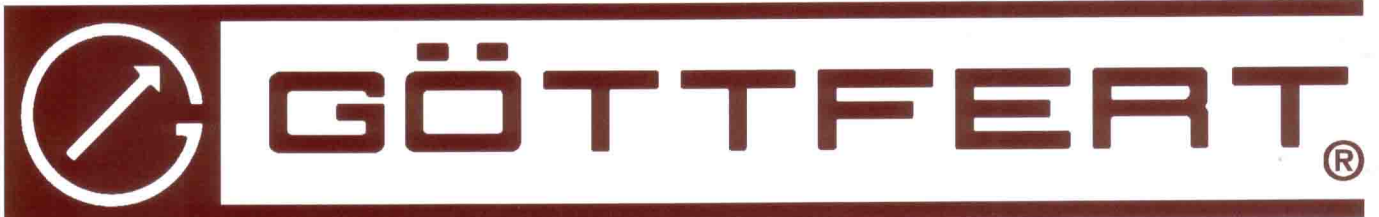




RHEOGRAPH 6000

the triple bore capillary rheometer



certified according to DIN EN ISO 9001

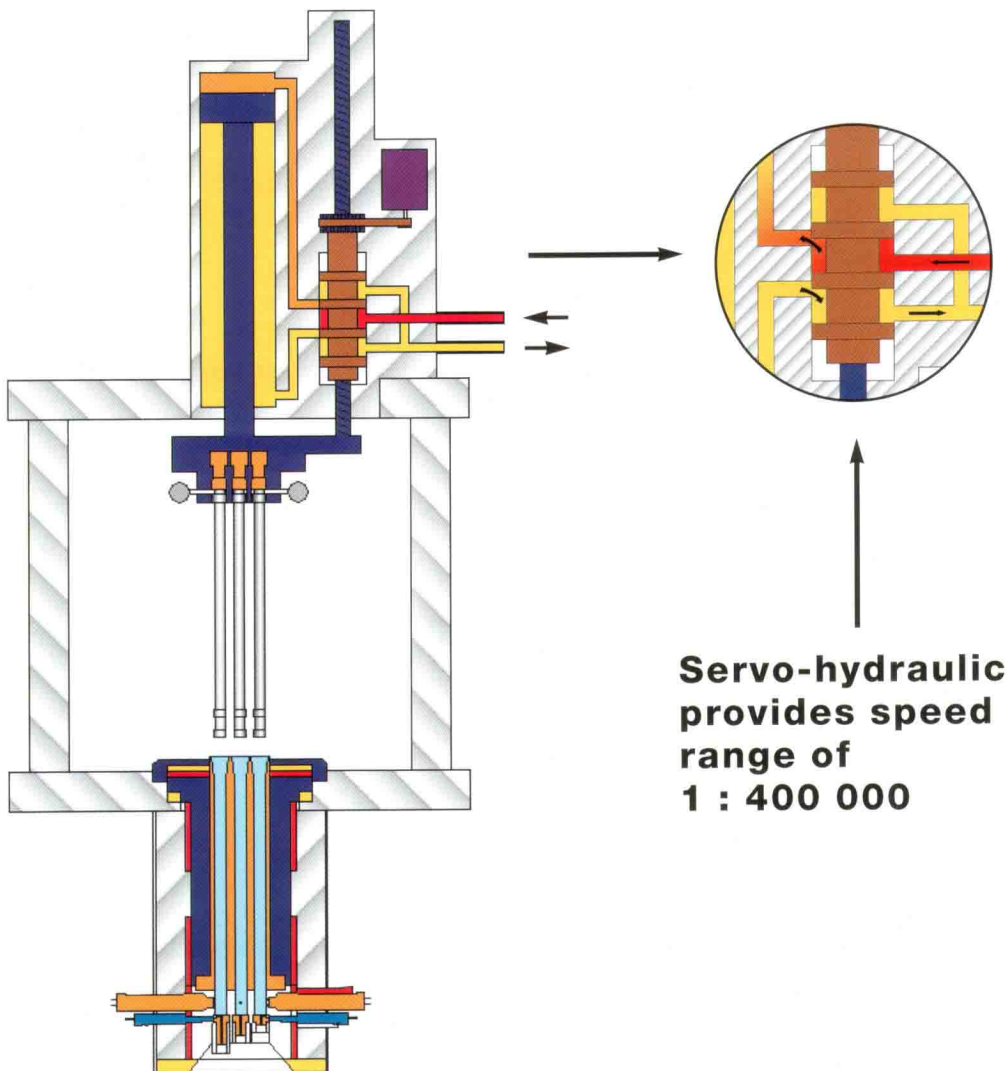
GFT 013.01.1-9-02

RHEOGRAPH 6000

- For the past 35 years Göttfert has set the standard for high pressure capillary rheometry.
- With the RHEOGRAPH 6000, Göttfert redefines the state-of-the-art.
- Based on the extensive R&D features of its predecessor, the newly developed 6000 series incorporates many enhancements and opens up a new spectrum of capabilities.

The new “heart” - with a triple bore and triple die:

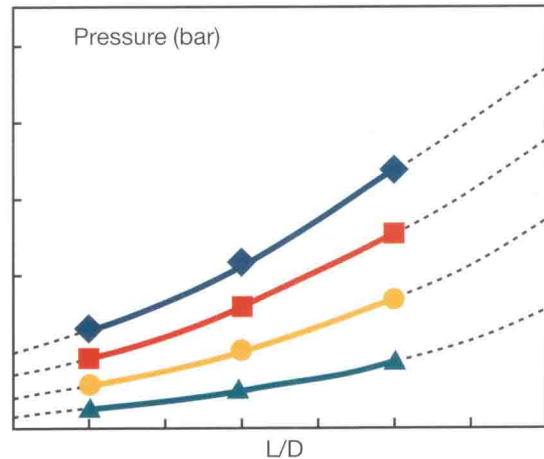
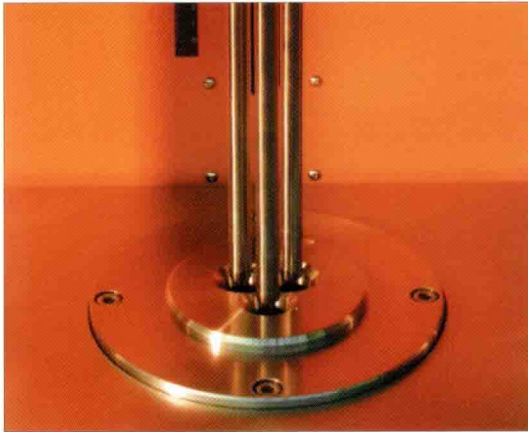
- This innovative measuring cell consists of an unique single barrel - triple bore design.
- Extreme care has been taken to ensure a design with homogeneous temperature distribution throughout the measuring cell.
- Each melt pressure is measured directly above the die and the piston load is measured separately on top of each piston.



RHEOGRAPH 6000

Rise above the ordinary: Get a curve, not a straight line

The new concept of triple bore - triple die configuration offers the advantage that with a single experiment a triple point Bagley-Correction is possible. This feature is of importance if polymer melt undergoes slip behavior and the corresponding Bagley functions do not show a linear correlation with die length as can be seen below.



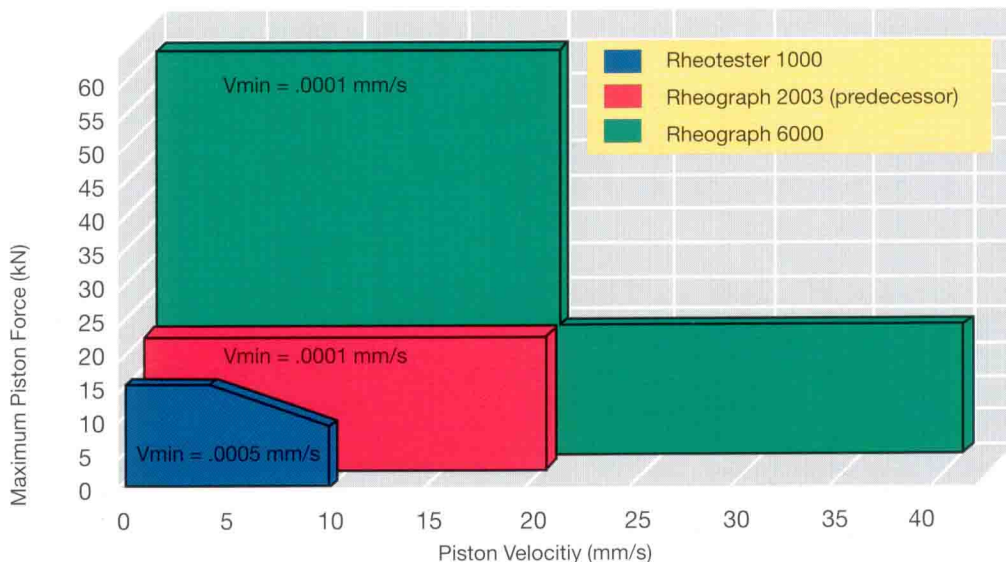
● The compact new single barrel - triple die - triple bore system. Easily exchanged for a single die and bore system to allow very high shear / high force experiments.

● Non-linear Bagley-plots of linear polyethylene with a flow behavior showing slip at the wall. Each curve can now be generated in a single test run!

Stronger and Faster :

RHEOGRAPH 6000 offers a **maximum force load of 60 kN**, three times higher than that of its predecessor.

The servo-hydraulic drive offers a **dynamic speed range of 1:400 000**. For ultra high shear rate experiments the maximum ram speed has been doubled to **40 mm/sec**.



V min = Minimum Piston Speed

Be better than the rest !

RHEOGRAPH 6000 offers the following new, today unmatched features of a high pressure capillary rheometer :

- 60 kN total thrust available as a standard feature
- microprocessor controlled servo-hydraulics provides dynamic speed range of 1 : 400 000.
- maximum piston speed 40 mm/s
- triple bore - triple die system enclosed in a single barrel
- independent triple piston load and melt pressure measurement

Features of GÖTTFERT'S Capillary Rheometers :

	RHEOGRAPH 6000	RHEO-TESTER 1000
total thrust	60 kN 0<v< 20 mm/s 20 kN 20<v< 40 mm/s	15 kN 0<v< 4mm/s 10 kN 4<v< 9mm/s 9.5 kN 9<v< 10mm/s
dynamic speed range	1 : 400 000	1 : 20 000
maximum piston speed	40 mm/s	10 mm/s
barrel	triple bore (standard) single bore (option)	single bore
user interface	WinRHEO (MS WINDOWS)	WinRHEO (MS WINDOWS)
constant pressure control	standard	standard
melt tension	Option	Option
die swell	Option	Option
PVT	Option	N/A
slit die	Option	N/A



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