Synventive
molding solutions

C P
T A

21 g POM + 2 g TPE
Chain link for conveyor belt

Key data

Molded part	Chain link
Application	Conveyor belt
Part weight	21 g POM + 2 g TPE
Material	POM + TPE
Mold type	Turntable mold
No. of cavities	4 + 4

Customer's requirements

This application involved the production of chain links of POM and TPE for conveyor belts in a 4 + 4-cavity turntable mold using the 2-component process.

Solution

In the implementation of this application, a single nozzle was used for the POM component and a 4-gate runner system with valve gate nozzles with face fit to the manifold for the TPE component. The cavities were directly gated on the one hand via a cold sub-runner (POM) and on the other with valve gate nozzles directly to the molding (TPE). The system was supplied as the hot half, i.e. including mold plates, ready installed and adjusted as well as wired ready for plugging in and with the necessary hose connections.

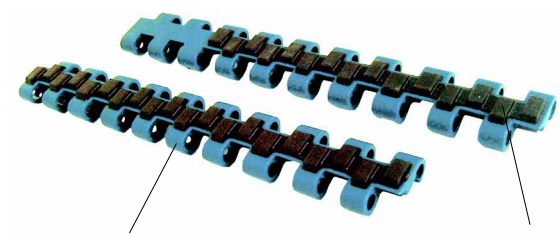
Benefits

- ➔Savings in time and costs thanks to the "hot half concept" as the preliminary stage to the finished mold side
- ➔Production without sprue waste and without reworking
- ➔Production with a large number of mold cavities
- ➔Good gating quality with respect to separation and appearance
- ➔Uniform supply and filling of all cavities with melt
- ➔Good molding quality from all the cavities

Schematic product overview

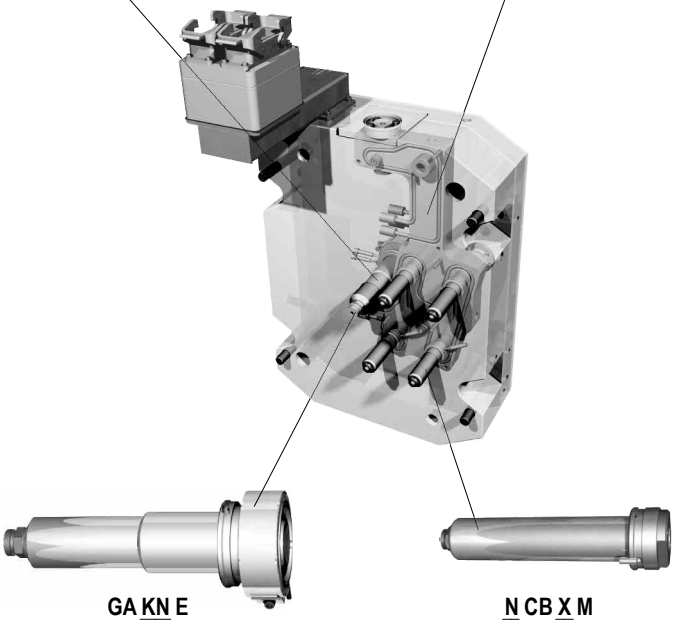
1. Single nozzle
   Series GA...E, Type KN
2. Manifold nozzle, face fit
   Series N CB...M, Type XV
3. Manifold
   Series VC
4. Actuator, pneumatic, in mold plate
   Series LCP 4008 02

Illustrations simplified, schematically drawn and not to scale.
For a specific application, please consult Synventive.



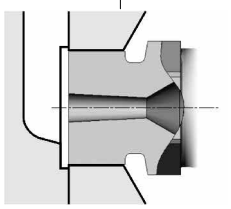
System 1 →POM

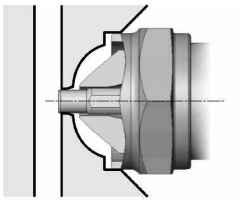
System 2 →TPE



GA KN E

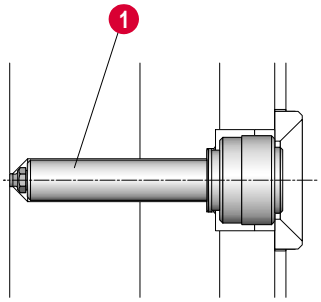
N CB X M

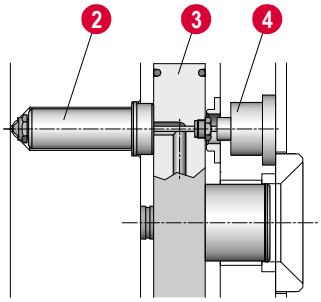




K N

X V





12 S

07 C + V C