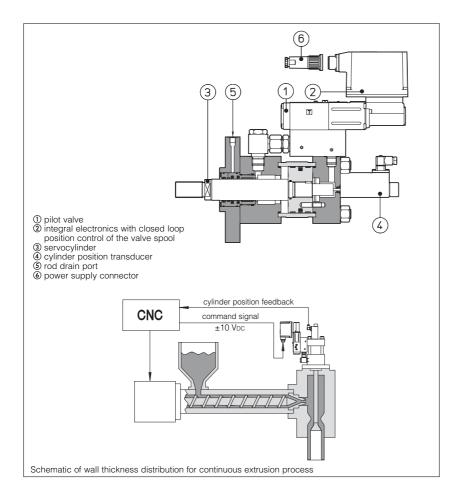


Actuators for PARISON controls

in blow molding machines



Description:

The Parison control is a well known process used in the plastic blow molding machines for the wall thickness distribution of continuous extruded profiles.

It is mainly used to obtain hollow items, as plastic bottles, tanks, etc, whose thickness can be modulated depending to the required localized mechanical resistance. The wall thickness is realized by means of a specific servoactuator operated in position closed loop control (see below the application scheme).

The Atos actuators CKG are special servo cylinders operated by a high dynamic proportional valve providing high performance and high regulation repeatability.

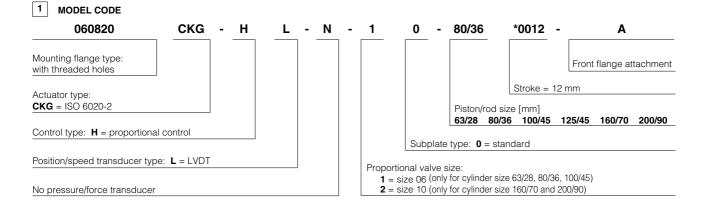
The integral and compact execution ensures the best stiffness of the hydraulic system and it permits high dynamics and position accuracy.

Characteristics:

The actuator is composed by:

- Special cylinder equipped with low friction seals and with LVDT position transducer. The rod end is threaded for the connection to the extrusion head
- High dynamic servo proportional valve with zero lapped spool and LVDT position transducer

Available sizes: ø63/28, ø80/36, ø100/45, ø125/45, ø160/70, ø200/90 mm. Stroke: 12 mm.



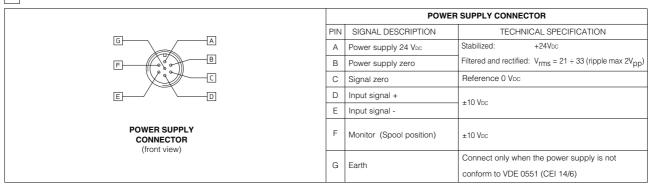
2 ACTUATOR COMPOSITION

Actuator model code	Servocylinder code	Servo proportional pilot valve code (see tab. F180)	
060820 CKG-HL-N-10-63/28*0012-A	07K0323 CKT/10-9-63/28*0012-A002-L-B1X1		
060820 CKG-HL-N-10-80/36*0012-A	02K1260 CKT/10-9-80/36*0012-A002-L-B1X1	DI 1170 TE 040 I 51/D	
060820 CKG-HL-N-10-100/45*0012-A	06K0120 CKT/10-9-100/45*0012-A002-L-B1X1	- DLHZO-TE-040-L51/B	
060820 CKG-HL-N-10-125/45*0012-A	06K0122 CKT/10-9-125/45*0012-A002-L-B1X1		
060820 CKG-HL-N-20-160/70*0012-A	06K0219 CKT/20-9-160/70*0012-A002-L-B1X1	DL KZOR TE 140 L 21/P	
060820 CKG-HL-N-20-200/90*0012-A	08X0125 CKT/20-9-200/90*0012-A002-L-B1X1	DLKZOR-TE-140-L31/B	

MAIN CHARACTERISTICS

Bore diameter		[mm]	63	80	100	125	160	200
Rod diameter		[mm]	28	36	45	45	70	90
Working stroke		[mm]	12					
Max pressure		[bar]	160					
Max force	(kN) —	Pull	40	64	100	170	260	400
		Push	50	80	125	190	320	500
Max speed		[m/s]	0,5					
Command signal		[VDC]	±10 Vpc					
Linearity			0,03 %					
Response time at step	ep signal (0-100%) [ms] 85 115 300 320 300							

4 INTEGRAL ELECTRONICS WIRING



	POSITION TRANSDUCER CONNECTOR OF PILOT VALVE						
PIN	Signal description						
1	OUTPUT SIGNAL	0÷10 VDC	(0 VDC = rod fully in; 10 VDC = rod fully out)				
2	SUPPLY -15 VDC						
3	SUPPLY +15 Vpc						
4	GND						

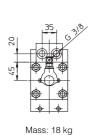
- Notes:
 electrical signals (e.g. actual feedback signals) acquired via valve electronics must not be used to switch off the machine safety functions. This is in accordance with the European standards (Safety requirements of fluid technology systems and components hydraulics, EN-892)
 installation notes with basic information for commissioning and start-up, are always supplied with relevant components, together with the specific technical tables

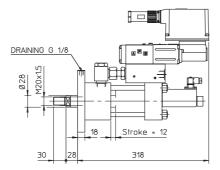
4.1 Model codes of power supply and transducer

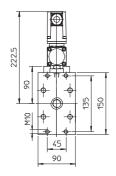
	Powe	Transducer	
CONNECTOR CODE	SP-ZM-7P (1)	SP-ZH-7P (1)	SP-345
PROTECTION DEGREE	IP66	IP67	IP67

(1) to be ordered separately

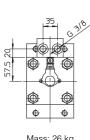
060820 CKG-HL-N-10-63/28*0012-A



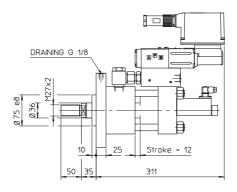


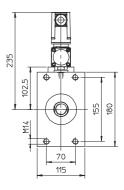


060820 CKG-HL-N-10-80/36*0012-A

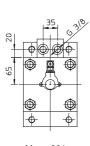




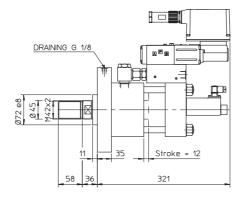


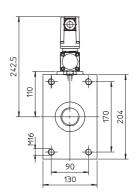


060820 CKG-HL-N-10-100/45*0012-A

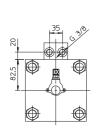


Mass: 36 kg

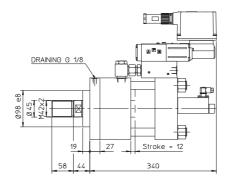


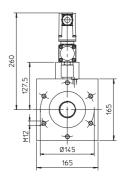


060820 CKG-HL-N-10-125/45*0012-A

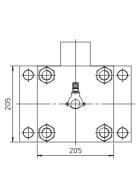


Mass: 53 kg

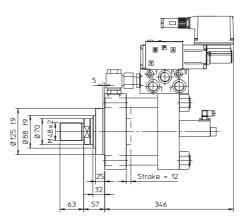


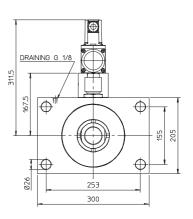


060820 CKG-HL-N-10-160/70*0012-A



Mass: 83 kg





060820 CKG-HL-N-10-200/90*0012-A

