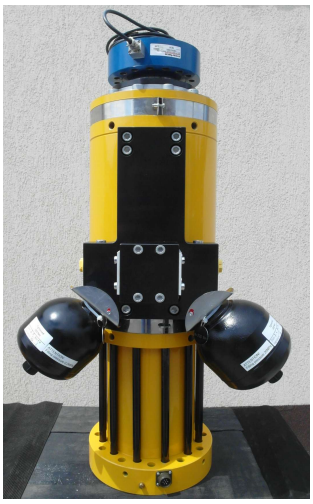
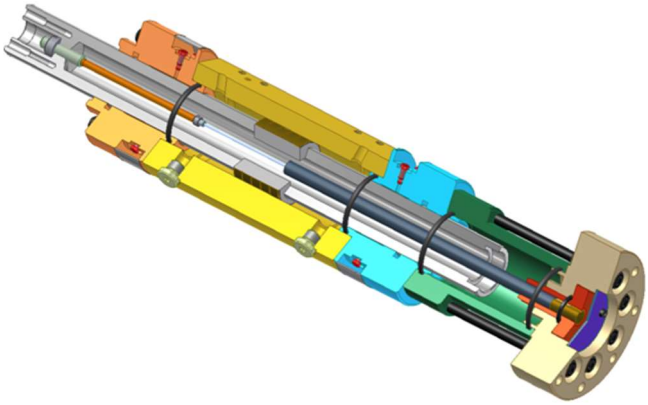
Linear Actuators – Type AH





Product Description

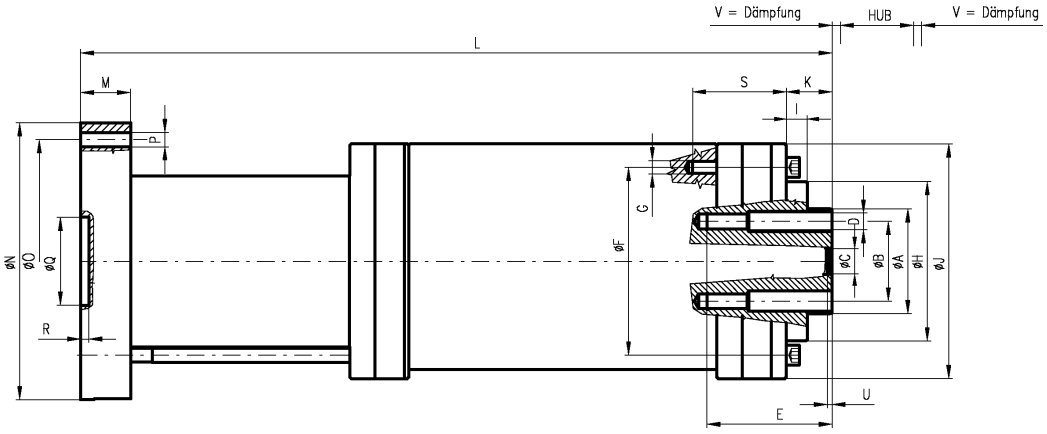
AH actuators are used for static and dynamic loading of tested objects. They have double sided piston rod with polyamide coating inside. Hydrostatic bearings result in high side load capacity, long service life and low friction. Polyamide coating protect bearings in case of short time overload. Oil, which passes out of bearings is collected in L line. Piston is also coated by polyamide. Piston has gap sealing.

Nominal travel is equal to useful travel. In this region speed is not limited. Additional internal damping length is used for actuator protection, not for periodical dissipating of kinetic energy. If additional load inertia has to be dissipated , ask your Sales Representative

Actuator can be connected at upper flange or by foot flange. For loading of structures joints JB, JBS and JC can be connected to actuator to compensate misalignment.
For operation of AH actuators servovalves Moog G 761 and 79 can be used. They are connected to actuators by Servoconnecting plates SCAT. SCAT plates allow to connect also feeding forces and hydropneumatic accumulators. Also torque limiting valve MV can be used.

Options

- Non-standard stroke and load
- Strengthened piston rod
- Piston rod prolongation
- Additional sealing — operation without leakage pump
- Fast speed version — Enlarged damping



Dimension table of standard AH actuators:

Type		AH10,16,25	AH40,63	AH100,160	AH250	AH400	AH630	AH1000
A	mm	∅45	∅55	∅80	∅125		∅160	∅200
B	mm	∅30	∅30	∅45	∅71	∅95	∅112	∅117
C	mm	∅18H7	∅18H7	∅18H7	∅30H7		∅50H7	∅50H7
D	mm	8xM6	8xM6	8xM10	8xM16	8xM20	8xM24	8xM24
E	mm	40	42	65	130	150	180	180
F	mm	∅80	∅100	∅160	∅224		∅280	∅355
G	mm	8xM8	6xM10	12xM10	12xM16		12xM20	12xM24
H	mm	∅65g6	∅75g6	∅125g6	∅190g6		∅236g6	∅300g6
I	mm	15	15	20	25		25	30
J	mm	∅110	∅130	∅200	∅280		∅340	∅420
K	mm	45	45	50	55		55	60
L_{100}	mm	520	535	565	600		690	750
L_{250}	mm	820	835	865	900		990	1050
L_{400}	mm	1120	1135	1165	1200		1290	1350
M	mm	40	40	50	60		70	80
N	mm	130	140	215	285	330	350	420
O	mm	110	120	180	245	290	320	380
P	mm	8x∅9	6x∅11	12x∅11	12x∅17		12x∅22	12x∅26
Q	mm	∅55	∅55	∅105	∅105		∅105	∅105
R	mm	4	4	5	10		10	10
S	mm	74	73	93	112		152	183
U	mm	10	10	10	10		10	10
V	mm	10	10	10	10		5	5
				Masse				
L_{100}	kg	28	38	110	210	220	365	620
L_{250}	kg	41	56	150	300	315	485	810
L_{400}	kg	54	74	190	390	420	505	1000

Position transducer

- Cylinder has implemented position transducers inside the piston rod. Connection by Connector on the body of actuator
- Type of possiiton sensor – can be select
    - Inductive Type WLG Messotron , with linearity 0,25%
    - Inductive Type WLG Messotron , with linearity 0,1%
    - Magneto strictive Type Temposonic with resolution 1 µm, output +-10V
    - Magneto strictive Type Temposonic with resolution 1 µm, output SSI

Servo connection plate

- Servo connection plate provide connection of the pressure oil to cylinder. Prepared for connection of the hoses.
- Equipped by adequate accumulators on the P and R side.
- Prepared for connection for the Serov valves.
- Types
    - SCA 65 with accus 0,75+0,75L , prepared for 1x servo G761
    - SCA 130 with accus 1,4+1,4L, prepared for 2x servo G761
    - SCA 250 with accus 2,5+2L, prepared for 4x servo G761
    - SCA 630 with accus 4+3,5, prepared for servo D792 up to 630L/min
    - SCA 1000 with piston accus 5+5L prepared for servo D792 up to 1000L/min

Leakage pump or Scraper rings

- Hydrostatic actuators work with bearing which are feed by pressure oil. Resting oil can be take out / sucked by the leakage pump (no any sealing) or is add to the cylinder set of additional sealigs (scraper rings)

Force sensors

- Inova as a standard equipment provide these types of force sensors
    - Germany producer GTM , type K or RF
    - USA producer Interface type 1720

Ordering questionnaire

Nominal force:

Nominal stroke:

Position transducer type:

Servo connection plate size:

Servo valves Type and amounts:

Leakage pumps Yes/No

Scraper rings Yes/No

Force transducer Yes/No, Type:

Hoses Yes/ No length:

Ball joints -+ see datasheet JB/JBS/JC – Yes/No

Additional request: