### **Measuring units ASDLP** Key features and type codes



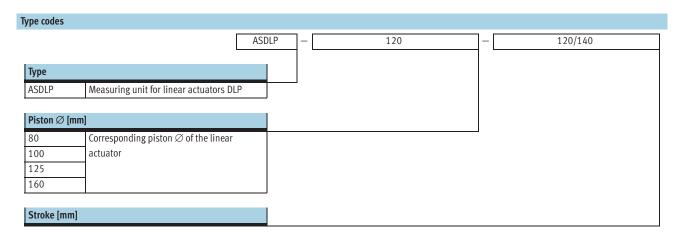


#### Systematic safety in the process industry

The ASDLP measuring unit is optimised for the process industry and can be used for closed and open-loop control of gate slides, flat slide valves and weirs particularly in the area of water, sewage and silage technology and in the paper and bulk goods industry. The movement of the linear actuator DLP is, from a purely mechanical point of view, sensed steplessly. The swivel angle is optimised with respect to the usability of various positioning controllers. The system offers the option of mounting the positioning controller normally used for quarter-turn actuators in the area of process automation directly onto the cylinder.

- Port pattern to Namur (VDI/ VDE 3845) for direct assembly of conventional positioning controllers
- Purely mechanical conversion of the linear movement into a rotational movement to actuate the positioning controllers
- Unlimited use in explosive atmospheres

- Specially suited for use outdoors
- Sturdy and reliable, even in aggressive environments
- Highly corrosion resistant
- Clean, smooth surface thanks to its elegant design
- Swivel angle 36 ... 108°



### Measuring units ASDLP Technical data

**FESTO** 

#### Interface to the linear actuator

The measuring unit is attached by clamping it into existing slots in the linear actuator DLP. Existing DLP linear actuators can thus be retrofitted with the measuring unit without requiring additional attachments.

#### Interface to the positioning controller

Port pattern to Namur VDI/VDE 3845



General technical data		
Assembly position		Any
Max. speed	[m/s]	0.05

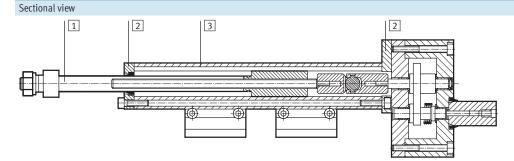
Rotation angle [°]				
Gearing for stroke	[mm]	50 100	100 200	200 600
Theoretical angle of rotation	[°]	54 108	50.5 101	36 108

Operating and environmental conditions			
Ambient temperature <sup>1)</sup> [°C]	-20 +80		
Corrosion resistance class CRC <sup>2)</sup>	3		
CE marking (see declaration	In accordance with EU EMC directive		
of conformity) → www.festo.com			
ATEX specification	II 2 GD c T6 T80°C		
ATEX ambient temperature	-20°C ≤ Ta ≤ +80°C		

- Note operating range of positioning controllers
- Corrosion resistance class 3 according to Festo standard 940 070 Components requiring higher corrosion resistance. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface

Weights [g]				
Size	80	100	125	160
Basic weight with 0 mm stroke	1,496	1,506	1,427	1,427
Additional weight per 10 mm stroke	23.9	23.9	23.9	23.9

#### Materials



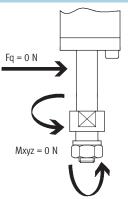
Mea	Measuring unit		
1 Piston rod Smooth-rolled, high-alloy steel		Smooth-rolled, high-alloy steel	
2	Bearing cap	Extruded aluminium	
3	Cylinder barrel	Smooth anodised aluminium	
-	External screws	Stainless steel	
-	Rod bearing	Smooth composite material	
-	Seals	Polyurethane, nitrile rubber	

## Measuring units ASDLP Technical data





#### Permissible loads on the measuring unit and on its telescopic measuring rod



Permissible drive torque or resetting torque, as appropriate, of the positioning controller

Mdriv. max = 2.5 Nm

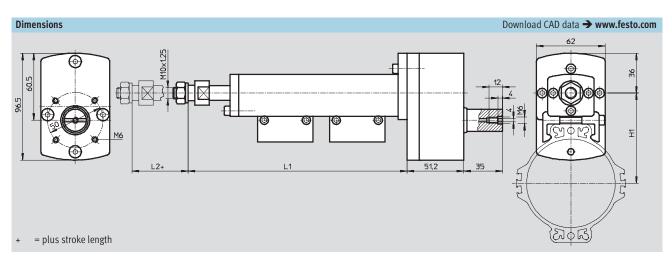
Permissible lateral load on the telescopic measuring rod

Fq = 0 N

Permissible torques on

the telescopic measuring rod

Mxyz = 0 Nm



Size	H1	L1	L2
[mm]		±3.5	
ASDLP-80-50/90	01.5	285	42.9 52.5
ASDLP-80-X	81.5	195+	43.8 52.5
	•		·
ASDLP-100-50/90		289	
ASDLP-100-90/110	93	309	47.8 56.5
ASDLP-100-X		199+	
ASDLP-125-120/140		308	
ASDLP-125-X	109	168+	16.8 25.5
ASDLP-160-140/170		338	
ASDLP-160-200/220	127	388	$\dashv$
ASDLP-160-250/270		438	16.8 25.5
ASDLP-160-X		168+	

# Measuring units ASDLP Technical data



Ordering data		
For DLP with piston $\varnothing$	Stroke	Part No. Type
[mm]	[mm]	
Kept in stock		
80	50 90	529 085 ASDLP-80-50/90
100	50 90	529 087 ASDLP-100-50/90
	90 110	529 088 ASDLP-100-90/110
125	120 140	529 090 ASDLP-125-120/140
160	140 170	529 092 ASDLP-160-140/170
	200 220	529 093 ASDLP-160-200/220
	250 270	529 094 ASDLP-160-250/270
On request		
80	50 600	529 084 ASDLP-80-X
100	50 600	529 086 ASDLP-100-X
125	50 600	529 089 ASDLP-125-X
160	50 600	529 091 ASDLP-160-X