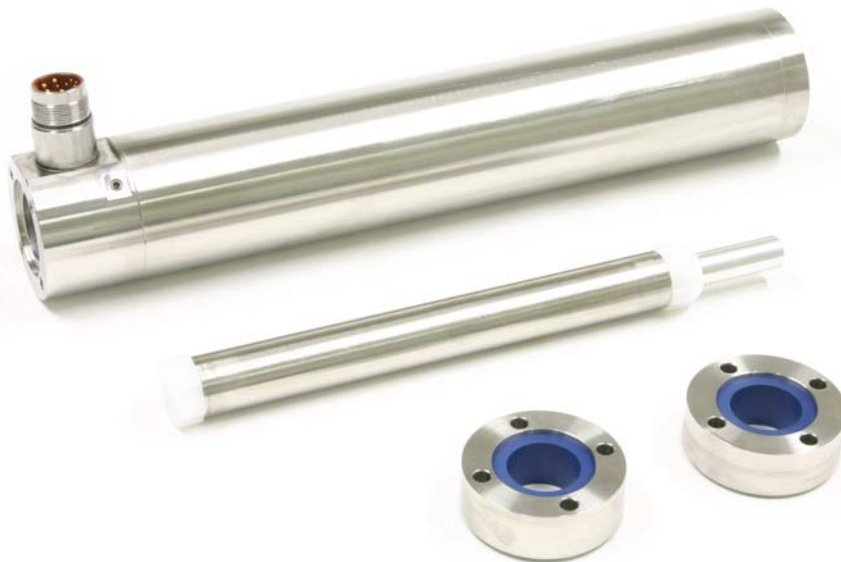


LinMot®

Stainless Steel Motors



Designed for harsh or food environment



Stainless steel housing EN1.4404 / AISI 316



Hygienic design, completely sealed



Protection rating IP69K



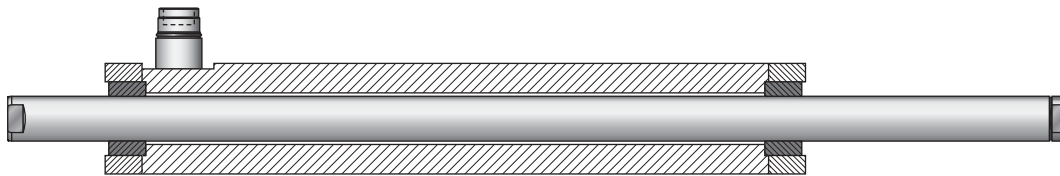
With optional water cooling pipes

The linear motor technology for industrial applications

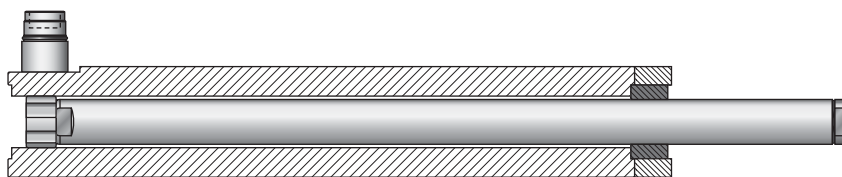
Stainless Steel Stator IP69K with bearings



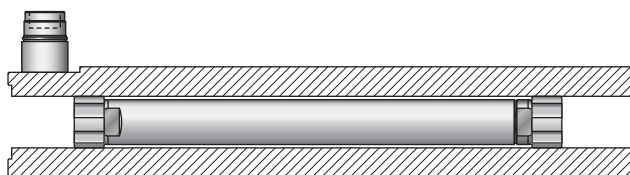
External bearings for mid range Strokes



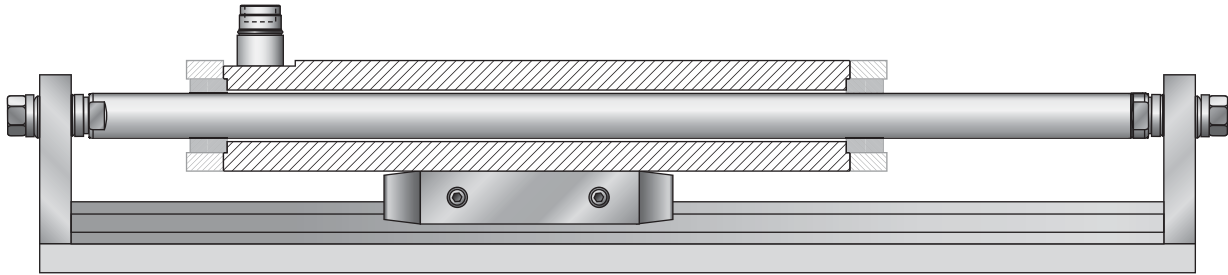
Internal/external bearings for short Strokes



Internal bearings for short Strokes

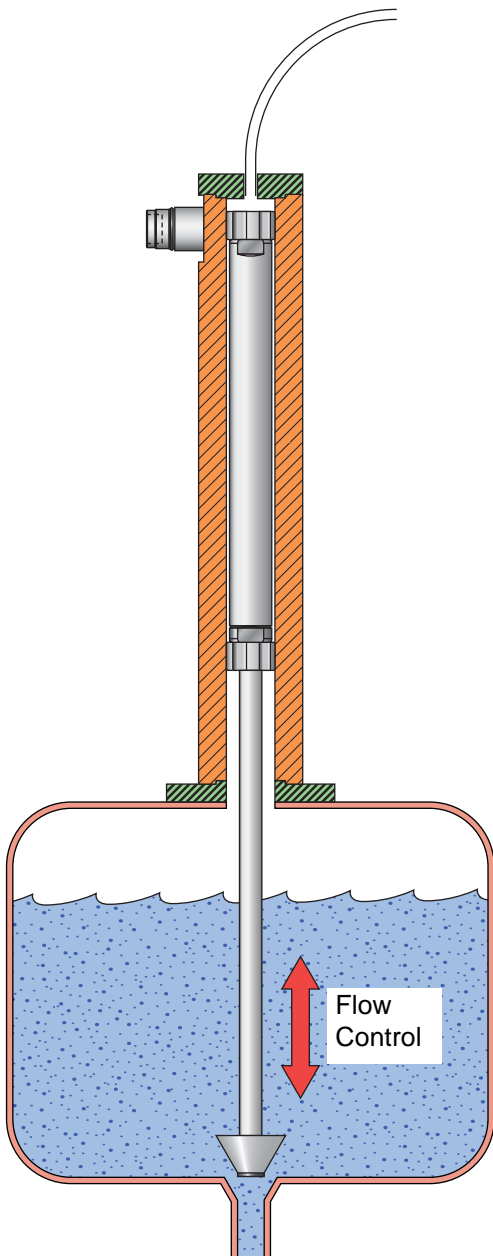


Application Example 1: Linear Stage IP69K

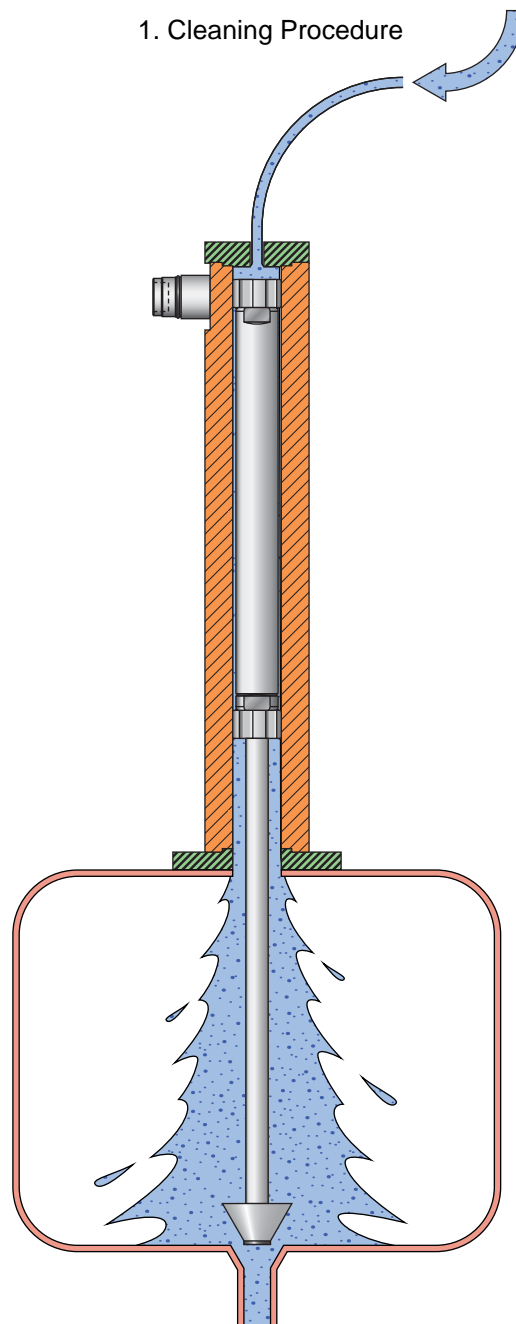


Application Example 2: Flow Control

1. Normal Operation



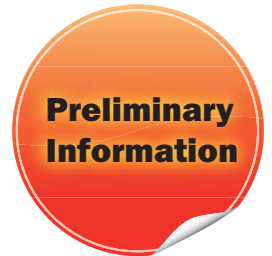
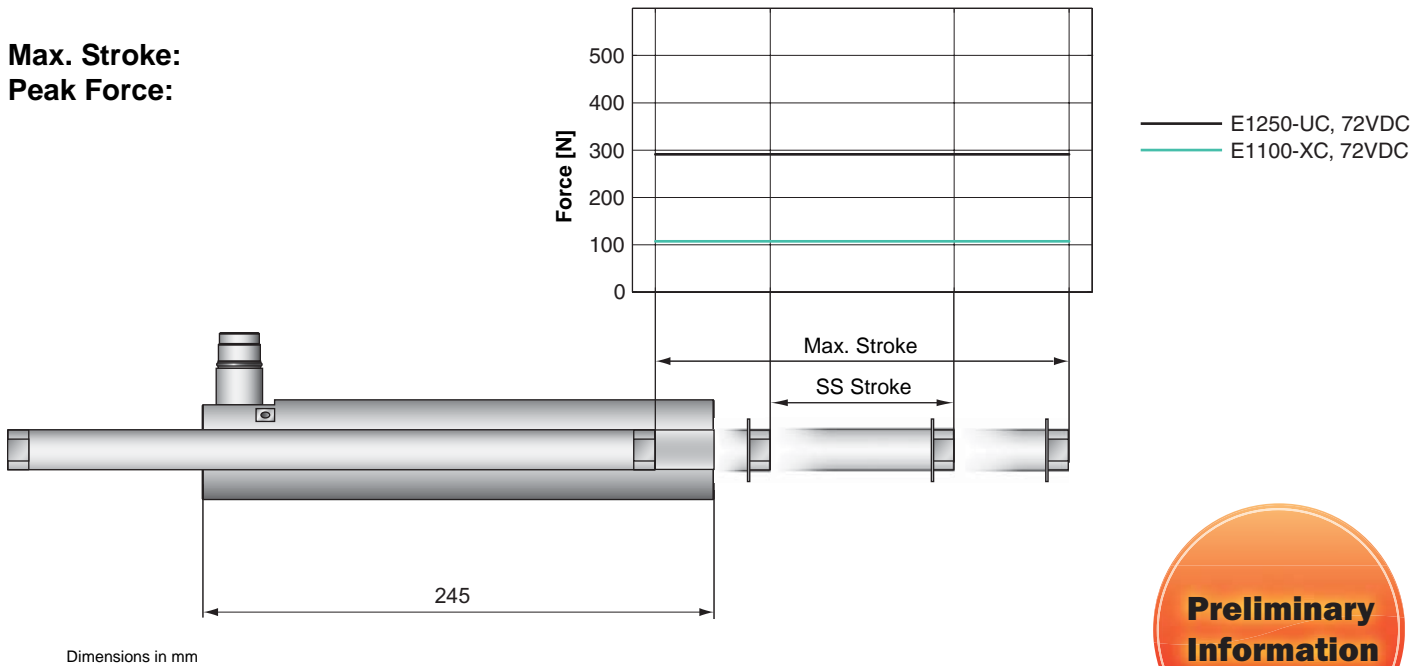
1. Cleaning Procedure



Applications:

- Clean Room
- Vacuum
- Aseptic

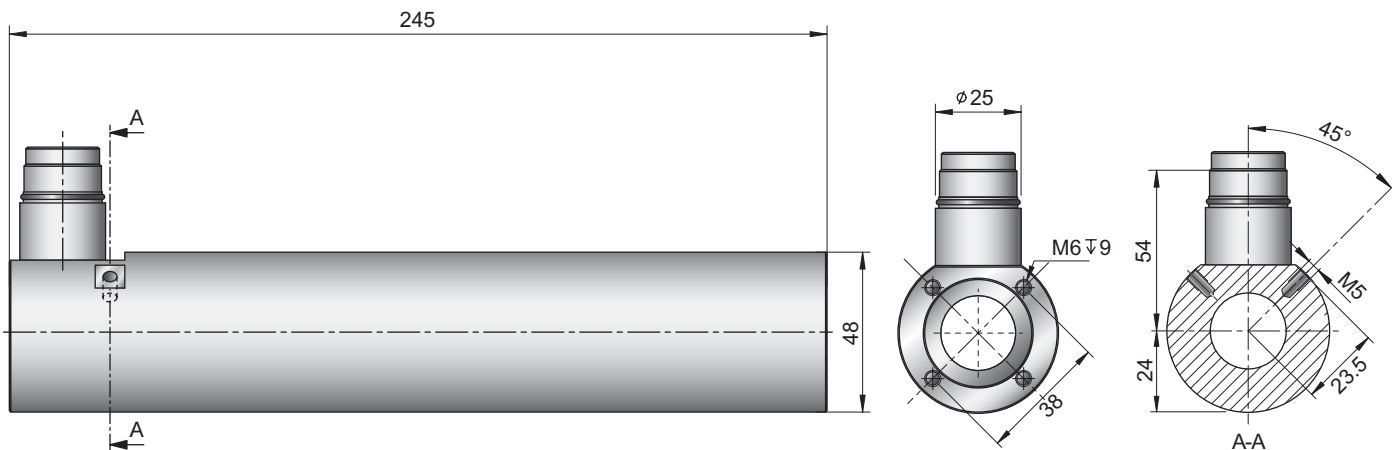
Max. Stroke:
Peak Force:



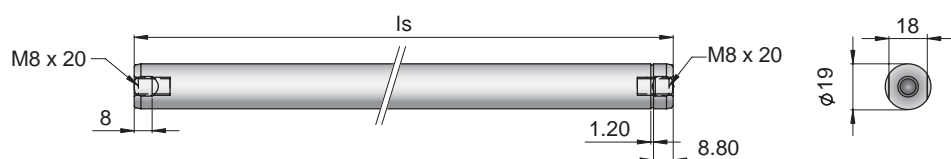
Motor Specification

		P01-37x120F-HP-SSC
Stroke Max.	mm (in)	
Stroke SS	mm (in)	
Peak Force E1100 - XC	N (lbf)	
Peak Force E1100 / E1001	N (lbf)	
Cont. Force	N (lbf)	
Cont. Force Fan cooling	N (lbf)	
Border Force	%	
Force Constant	N/A (lbf/A)	
Max. Current @ 72VDC	A	
Max. Current @ 48VDC	A	
Max. Velocity @ 72VDC	m/s (in/s)	
Max. Velocity @ 48VDC	m/s (in/s)	
Phase Resist. 25/80 °C	Ohm	
Phase Inductance	mH	
Thermal Resistance	°K/W	
Thermal Time Const.	sec	
Stator Diameter	mm (in)	
Stator Length	mm (in)	
Stator Mass	g (lb)	
Slider Diameter	mm (in)	
Slider Length	mm (in)	
Slider Mass	g (lb)	
Position Repeatability	mm (in)	
Linearity	%	
Position Rep. with ES	mm (in)	
Linearity with ES	mm (in)	

PS01-37x120F-HP-SSC



PL01-19x.../...



ls	240	300	305	330	365
	395	405	460	500	600
	700	800	900	1000	1200
	1300	1400	1600	1800	2000

Linear Motor		Stator		Slider	
Type	Art. Nr.	Type	Art. No.	Type	Art No.
P01-37x120F/-HP-SSC	-->			& PL01-19x240/160	0150-1448
P01-37x120F/-HP-SSC	-->			& PL01-19x300/220	0150-1449
P01-37x120F/-HP-SSC	-->			& PL01-19x305/160	0150-1450
P01-37x120F/-HP-SSC	-->			& PL01-19x330/220	0150-1496
P01-37x120F/-HP-SSC	-->			& PL01-19x350/260	0150-1498
P01-37x120F/-HP-SSC	-->			& PL01-19x365/220	0150-1451
P01-37x120F/-HP-SSC	-->			& PL01-19x395/320	0150-1452
P01-37x120F/-HP-SSC	-->			& PL01-19x405/260	0150-1453
P01-37x120F/-HP-SSC	-->			& PL01-19x460/400	0150-1454
P01-37x120F/-HP-SSC	-->			& PL01-19x500/420	0150-1455
P01-37x120F/-HP-SSC	-->			& PL01-19x600/520	0150-1456
P01-37x120F/-HP-SSC	-->	PS01-37x120F-HP-SSC		& PL01-19x700/620	0150-1457
P01-37x120F/-HP-SSC	-->	PS01-37x120F-HP-SSC-FC		& PL01-19x800/720	01-50-1458
P01-37x120F/-HP-SSC	-->			& PL01-19x900/820	0150-1459
P01-37x120F/-HP-SSC	-->			& PL01-19x1000/920	0150-1460
P01-37x120F/-HP-SSC	-->			& PL01-19x1200/1120	0150-1461
P01-37x120F/-HP-SSC	-->			& PL01-19x1300/1220	0150-1462
P01-37x120F/-HP-SSC	-->			& PL01-19x1400/1320	0150-1463
P01-37x120F/-HP-SSC	-->			& PL01-19x1600/1520	0150-1464
P01-37x120F/-HP-SSC	-->			& PL01-19x1800/1720	0150-1465
P01-37x120F/-HP-SSC	-->			& PL01-19x2000/1920	0150-1466

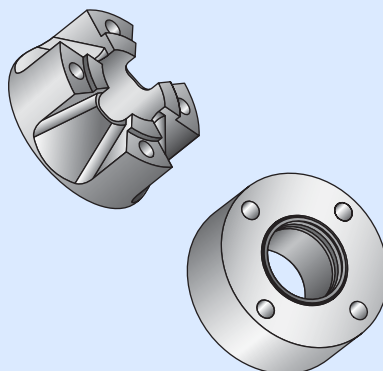
Connectors

Motor Connector Wiring

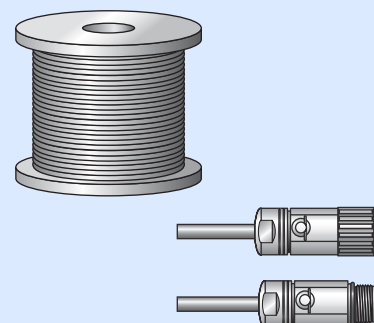
Ph 1+	red	1
Ph 1-	pink	2
Ph 2+	blue	3
Ph 2-	gray	4
+5VDC	white	A
GND	inner Shield	B
Sine	yellow	C
Cosine	green	D
Temp.	black	E
Shield	outer Shield	Case

Accessoires

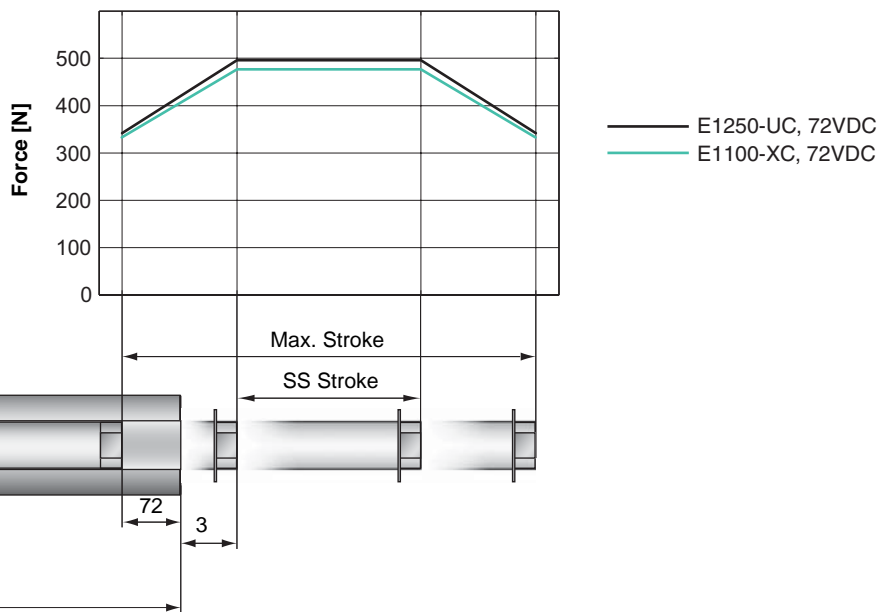
Plain Bearings



Cable + Connectors



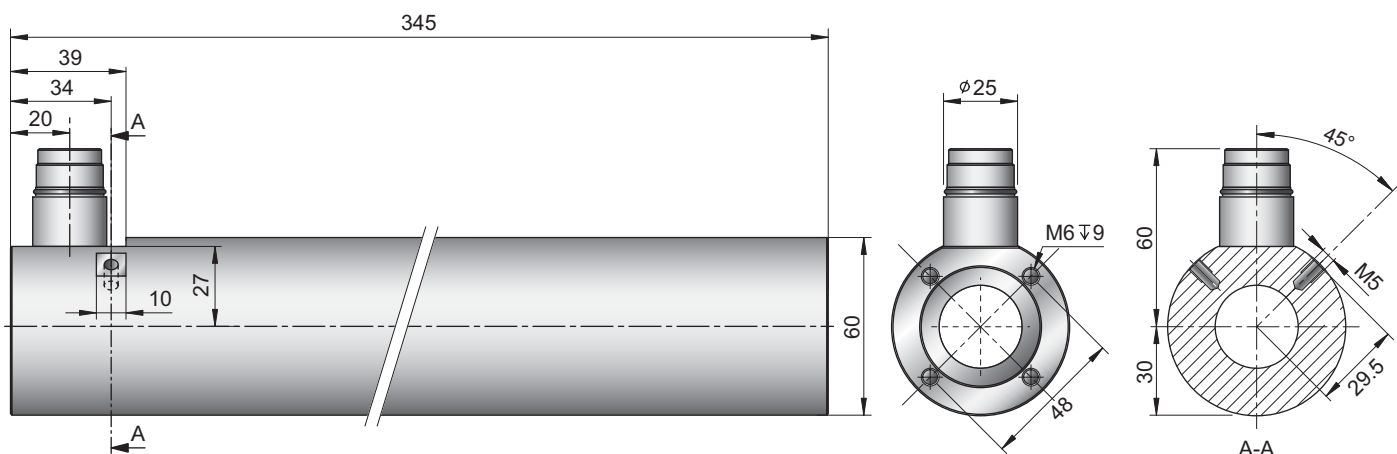
Max. Stroke: 1830mm
Peak Force: 496N



Motor Specification

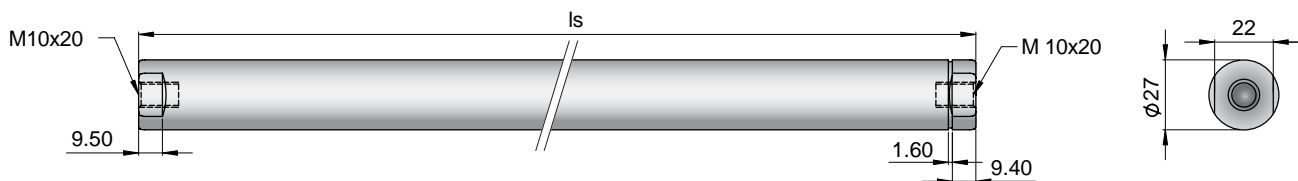
		48x240F-SSC													
Stroke Max.	mm (in)	180	240	330	450	540	630	750	840	1050	1230	1440	1650	1830	
Stroke SS	mm (in)	30	90	180	300	390	480	600	690	900	1080	1290	1500	1680	
Peak Force E12x0 - UC	N (lbf)	496 (111.51)													
Peak Force E1100 - XC	N (lbf)	477 (107.23)													
Cont. Force	N (lbf)	86 (19.33)													
Cont. Force Liquid cooling	N (lbf)	241 (54.18)													
Border Force	%	69													
Force Constant	N/A (lbf/A)	19.1 (4.29)													
Max. Current @ 72VDC	A	26													
Max. Velocity @ 72VDC	m/s (in/s)	3.4 (134)													
Phase Resist. 25/80 °C	Ohm	1.0/1.2													
Phase Inductance	mH	1.0													
Thermal Resistance	°K/W														
Thermal Time Const.	sec														
Stator Diameter	mm (in)	60 (2.36)													
Stator Length	mm (in)	345 (13.58)													
Stator Mass	g (lb)	3710 (8.18)													
Slider Diameter	mm (in)	27 (0.059)													
Slider Length	mm (in)	350	410	500	620	710	800	920	1010	1220	1400	1610	1820	2000	
Slider Mass	g (lb)	1360	1620	2010	2530	2920	3310	3830	4220	5130	5910	6820	7730	8510	
Position Repeatability	mm (in)	±0.05 (±0.0020)													
Linearity	%	±0.10													
Position Rep. with ES	mm (in)	±0.01 (±0.0004)													
Linearity with ES	mm (in)	±0.01 (±0.0004)													

PS01-48x240F-SSC



PL01-27x.../...

Is					
350	410	500	620	710	
800	920	1010	1220	1400	
1610	1820	2000			



Linear Motor	Art. Nr.	Stator	Art. No.	Slider	Art No.
Type		Type		Type	
P01-48x240F/30x180-SSC	-->			& PL01-27x350/270	0150-1467
P01-48x240F/90x240-SSC	-->			& PL01-27x410/330	0150-1468
P01-48x240F/180x330-SSC	-->			& PL01-27x500/420	0150-1469
P01-48x240F/300x450-SSC	-->			& PL01-27x620/540	0150-1470
P01-48x240F/390x540-SSC	-->			& PL01-27x710/630	0150-1471
P01-48x240F/480x630-SSC	-->			& PL01-27x800/720	0150-1472
P01-48x240F/600x750-SSC	-->	PS01-48x240F-SSC-C	0150-1267	& PL01-27x920/840	0150-1447
P01-48x240F/690x840-SSC	-->	PS01-48x240F-SSC-C-FC	0150-1268	& PL01-27x1010/930	0150-1473
P01-48x240F/900x1050-SSC	-->			& PL01-27x1220/1140	0150-1587
P01-48x240F/1080x1230-SSC	-->			& PL01-27x1400/1320	0150-1588
P01-48x240F/1290x1440-SSC	-->			& PL01-27x1610/1530	0150-1589
P01-48x240F/1500x1650-SSC	-->			& PL01-27x1820/1740	0150-1590
P01-48x240F/1680x1830-SSC	-->			& PL01-27x2000/1920	0150-1553

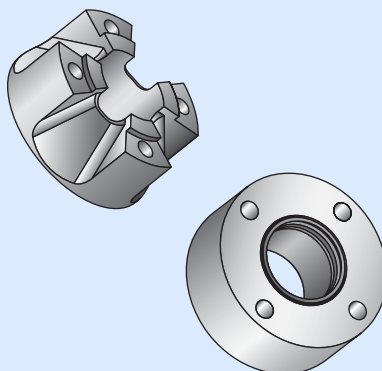
Connectors

Motor Connector Wiring

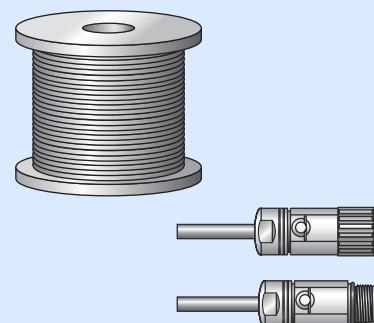
Ph 1+	red	1
Ph 1-	pink	2
Ph 2+	blue	3
Ph 2-	gray	4
+5VDC	white	A
GND	inner Shield	B
Sine	yellow	C
Cosine	green	D
Temp.	black	E
Shield	outer Shield	Case

Accessoires

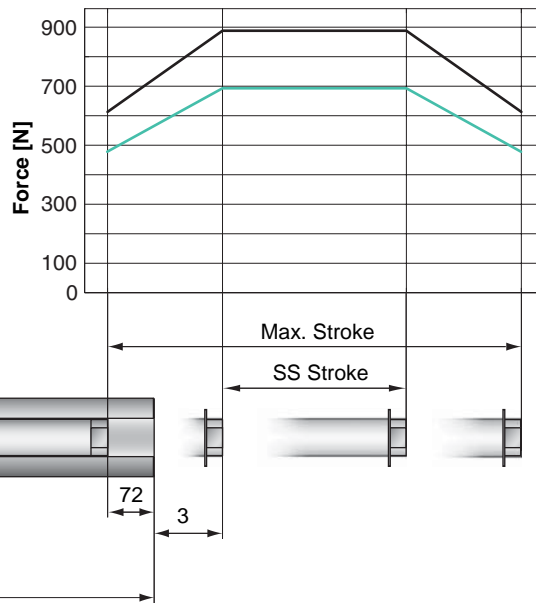
Plain Bearings



Cable + Connectors



Max. Stroke: 1710mm
Peak Force: 888N



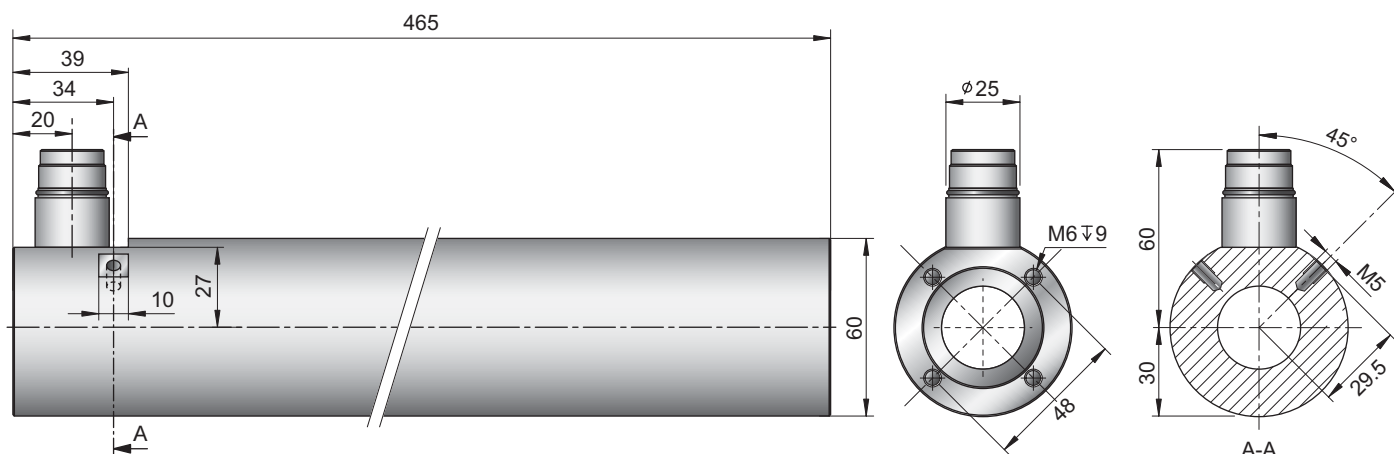
— E1250-UC, 72VDC
 — E1100-XC, 72VDC

Dimensions in mm

Motor Specification

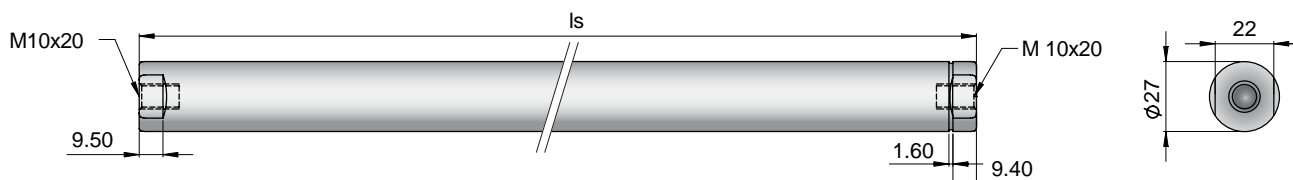
		48x360F-SSC											
Stroke Max.	mm (in)	210	330	420	510	630	720	930	1110	1320	1530	1710	
Stroke SS	mm (in)	60	180	270	360	480	570	780	960	1170	1380	1560	
Peak Force E12x0 - UC	N (lbf)	888 (199.6)											
Peak Force E1100 - XC	N (lbf)	693 (155.8)											
Cont. Force	N (lbf)	129 (29.0)											
Cont. Force Liquid cooling	N (lbf)	360 (80.9)											
Border Force	%	69											
Force Constant	N/A (lbf/A)	27.7 (6.23)											
Max. Current @ 72VDC	A	32											
Max. Velocity @ 72VDC	m/s (in/s)	2.35											
Phase Resist. 25/80 °C	Ohm	1.5/1.8											
Phase Inductance	mH	1.5											
Thermal Resistance	°K/W												
Thermal Time Const.	sec												
Stator Diameter	mm (in)	60 (2.36)											
Stator Length	mm (in)	465 (18.31)											
Stator Mass	g (lb)	5000 (11.02)											
Slider Diameter	mm (in)	27 (0.059)											
Slider Length	mm (in)	500	620	710	800	920	1010	1220	1400	1610	1820	2000	
Slider Mass	g (lb)	2010	2530	2920	3310	3830	4220	5130	5910	6820	7730	8510	
Position Repeatability	mm (in)	±0.05 (±0.0020)											
Linearity	%	±0.10											
Position Rep. with ES	mm (in)	±0.01 (±0.0004)											
Linearity with ES	mm (in)	±0.01 (±0.0004)											

PS01-48x240F-SSC



PL01-27x.../...-HP

Is	500	620	710	800
	920	1010	1220	1400
	1610	1820	2000	



Linear Motor	Art. Nr.	Stator	Art. No.	Slider	Art No.
P01-48x360F/60x210-SSC	-->			& PL01-27x500/420	0150-1469
P01-48x360F/180x330-SSC	-->			& PL01-27x620/540	0150-1470
P01-48x360F/270x420-SSC	-->			& PL01-27x710/630	0150-1471
P01-48x360F/360x510-SSC	-->			& PL01-27x800/720	0150-1472
P01-48x360F/480x630-SSC	-->	PS01-48x360F-SSC-C	0150-1270	& PL01-27x920/840	0150-1447
P01-48x360F/570x720-SSC	-->	PS01-48x360F-SSC-C-FC	0150-1271	& PL01-27x1010/930	0150-1473
P01-48x360F/780x930-SSC	-->			& PL01-27x1220/1140	0150-1587
P01-48x360F/960x1110-SSC	-->			& PL01-27x1400/1320	0150-1588
P01-48x360F/1170x1320-SSC	-->			& PL01-27x1610/1530	0150-1589
P01-48x360F/1380x1530-SSC	-->			& PL01-27x1820/1740	0150-1590
P01-48x360F/1560x1710-SSC	-->			& PL01-27x2000/1920	0150-1553

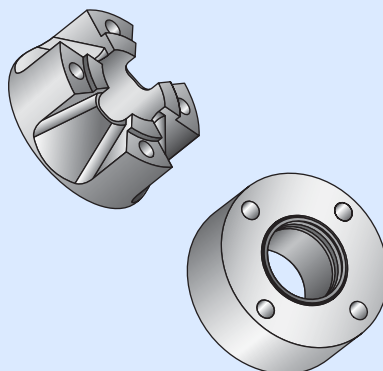
Connectors

Motor Connector Wiring

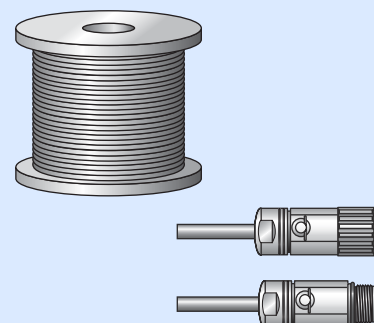
Ph 1+	red	1
Ph 1-	pink	2
Ph 2+	blue	3
Ph 2-	gray	4
+5VDC	white	A
GND	inner Shield	B
Sine	yellow	C
Cosine	green	D
Temp.	black	E
Shield	outer Shield	Case

Accessoires

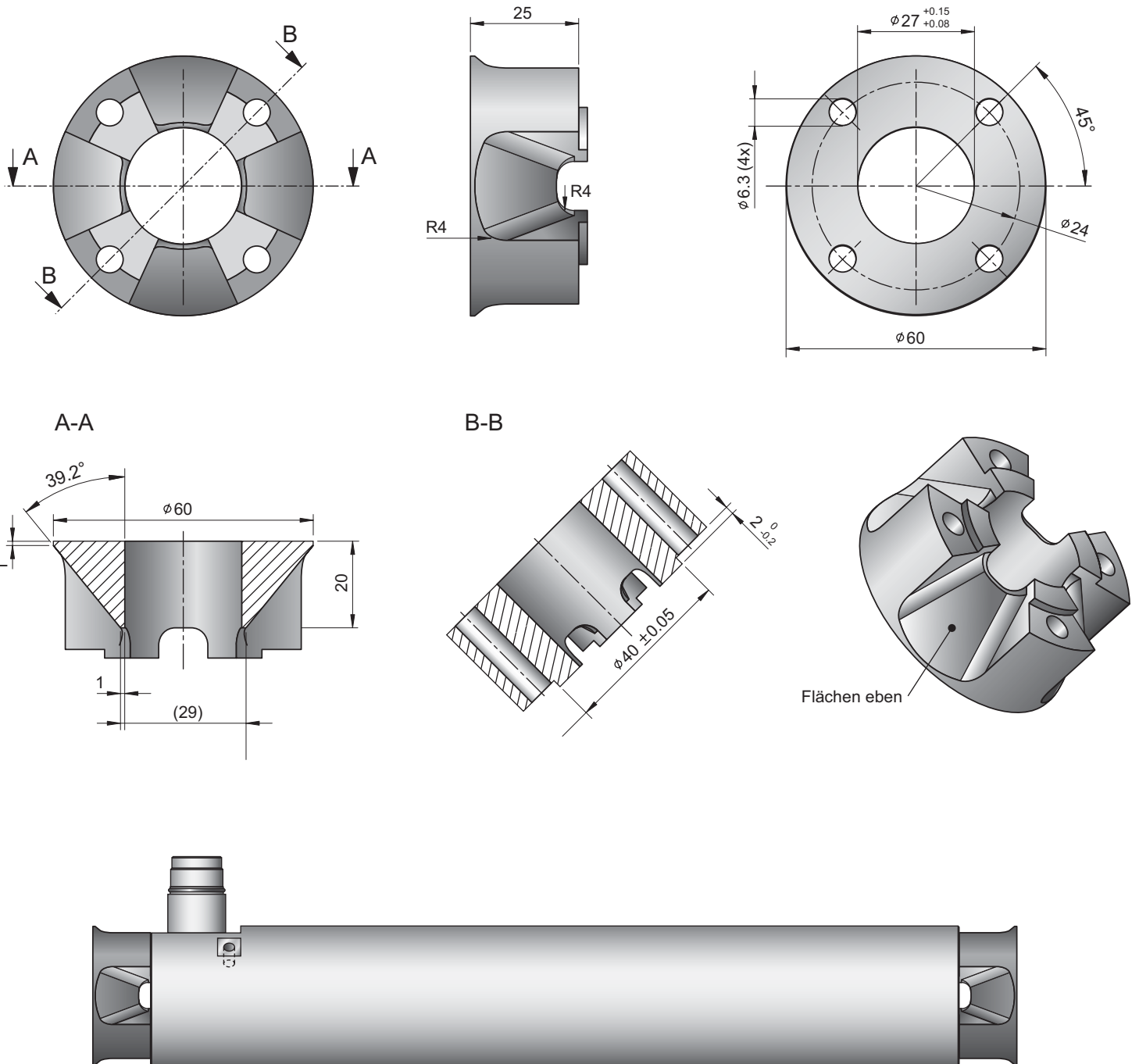
Plain Bearings



Cable + Connectors



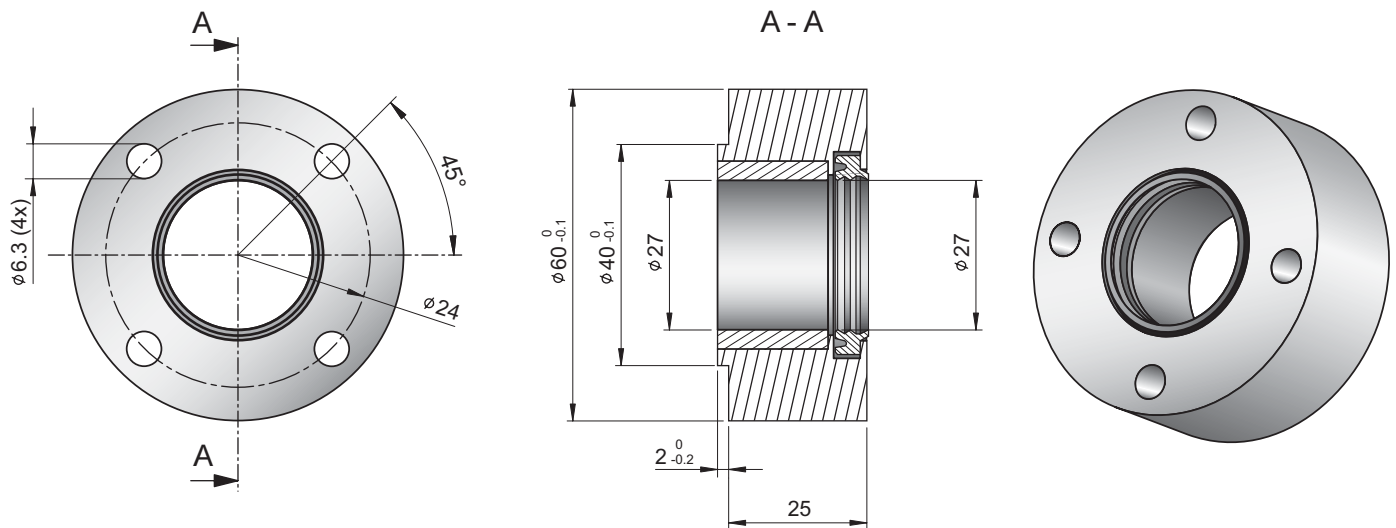
PB02-48x25-P-WD



Ordering information

Item	Description	Part Number
PB01-48x25-P-WD	Plain Bearing for PS01-48x...-SSC (synthetical)	0150-3271

PB01-48x25-P-SS



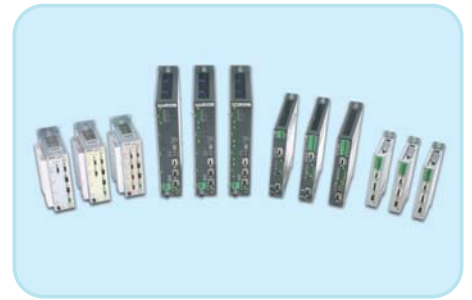
Ordering information

Item	Description	Part Number
PB01-48x25-P-SS	Plain Bearing for PS01-48x...-SSC (Stainless Steel)	0150-3281

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