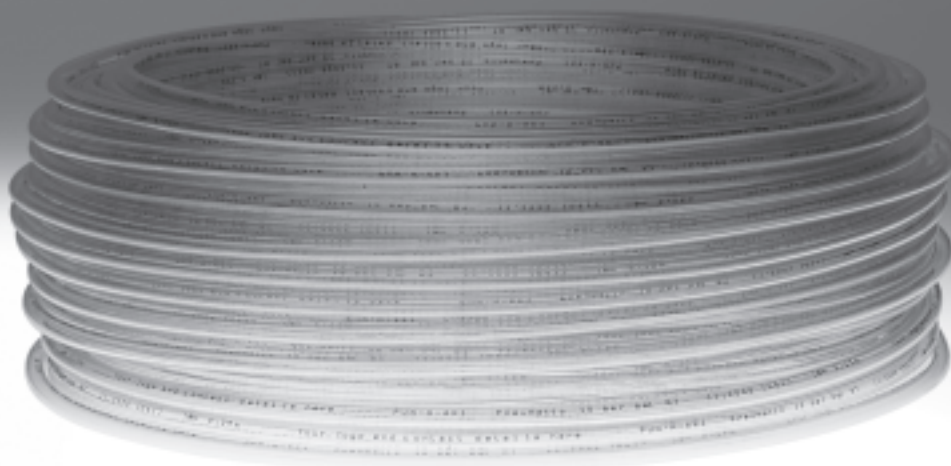


Plastic tubing, standard O.D., Inch

FESTO



Plastic tubing, standard O.D., Inch

Product range overview

FESTO

Version	Type	Outside diameter [inch]	Colour									Operating medium		
			Silver	Blue	Black	Yellow	Green	Red	Brown	White	Natural	Compressed air	Vacuum	Drinking water
	PEN Polyethylene	5/32, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8	■	■	■	■	■	■	■	■	■	■	■	-
	PLN Polyethylene	5/32, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8	■	■	■	■	■	■	■	■	■	■	■	■
	PUN-H Polyurethane	1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8	■	■	■	■	■	■	■	■	■	■	■	-

Plastic tubing, standard O.D., Inch

Product range overview

FESTO

Type	Approved for use in the food industry to 2002/72/EC	FDA approved for use in the food industry	KTW-A certification for drinking water	W 270 certification for drinking water	Halogen-free	Contact with electric cables	PWIS-free to FN 942 010	Suitable for use with energy chains	Resistance				Flexibility	Shore hardness	→ Page/ Internet
									Chemicals	Microbes	UV radiation	Hydrolysis			
PEN	-	-	-	-	■	■	■	■	++	++	++ ¹⁾	+++	++	D 52	6
PLN	■	-	■	■	■	■	■	-	++	++	++ ¹⁾	+++	+	D 52	8
PUN-H	■	■	-	-	■	■	■	■	+	++	++ ¹⁾	++	+++	D 52	10

+++ Highly suitable
++ Suitable

+ Limited suitability (upon request)
- Unsuitable

1) Applies to black
colour

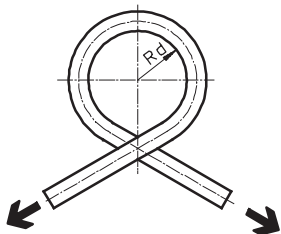
Plastic tubing, standard O.D., Inch

Technical data

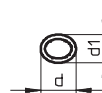
FESTO

Method of measurement

Bending radius relevant for flow rate R_d



The tubing is bent in the direction of its curvature until a flattening corresponding to 5% of the tubing O.D. occurs. R_d is then calculated mathematically. The flow rate is not reduced until R_d is reached.

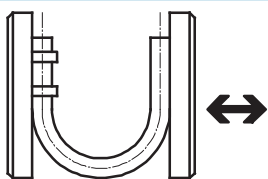


Cross section flattened by bending the tubing.

d = Non-deformed tubing O.D.

$d1$ = Deformed tubing O.D.

Minimum bending radius R_{min}



The tubing fixed to the base plate is bent until the deformation results in a kink. The measured value is the minimum bending radius R_{min} . This R_{min} results in significant reductions in flow rate.

Plastic tubing, standard O.D., Inch

Type codes

PEN		—		—		—	BL	—	150	—	CB
Material											
PEN	Polyethylene										
PLN	Polyethylene										
PUN	Polyurethane										
Approval											
H	Hydrolysis-resistant										
Outside diameter [inch]											
Colour											
SW	Black										
BL	Blue										
GN	Green										
RT	Red										
WS	White										
GE	Yellow										
BR	Brown										
SI	Silver										
NT	Natural										
Packaging unit [feet]											
Packaging											
CB	Cardboard box										
HA	Reel										

Plastic tubing PEN, standard O.D., Inch

Technical data

Plastic tubing PEN

Compressed air tubing made of polyethylene is distinguished by great resistance to chemicals and hydrolysis. It is resistant to most cleaning agents and lubricants.

-Q- Ambient temperature
-22 ... +140 °F

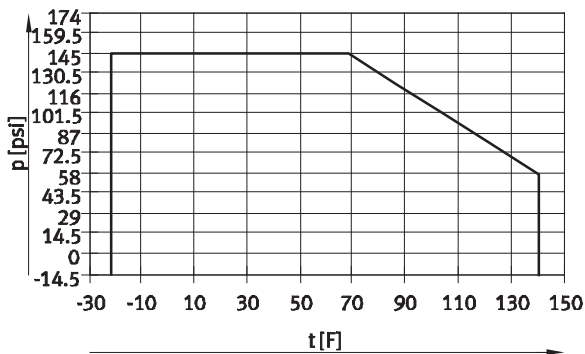
Pressure
operating pressure
-14.4 ... +145 psi

Material:
PE

Note on materials:
Free of copper and PTFE
RoHS-compliant



Operating pressure p as a function of temperature t



Possible fittings



Push-in fitting QS-U,
Quick Star
➔ Internet: qs*-u



Push-in fitting QB-U,
Quick Basic
➔ Internet: qb*-u

Dimensions and ordering data

Outside diameter [inch]	Min. bending radius [ft]	Bending radius relevant for flow rate [ft]	Weight [oz/ft]	Colour	Part No.	Type	PU ¹⁾ [ft]
5/32	0.032	0.065	0.067	Black	569881	PEN-5/32-SW-150-CB	150
				Blue	569889	PEN-5/32-BL-150-CB	150
3/16	0.039	0.075	0.100	Black	569882	PEN-3/16-SW-150-CB	150
				Blue	569890	PEN-3/16-BL-150-CB	150
1/4	0.041	0.085	0.186	Black	569883	PEN-1/4-SW-150-CB	150
				Blue	569891	PEN-1/4-BL-150-CB	150
5/16	0.073	0.114	0.250	Black	569884	PEN-5/16-SW-150-CB	150
				Blue	569892	PEN-5/16-BL-150-CB	150
3/8	0.088	0.131	0.376	Black	569885	PEN-3/8-SW-150-CB	150
				Blue	569893	PEN-3/8-BL-150-CB	150
1/2	0.108	0.196	0.848	Black	569886	PEN-1/2-SW-150-CB	150
				Blue	569894	PEN-1/2-BL-150-CB	150
5/8	0.196	0.410	1.158	Black	569887	PEN-5/8-SW-150-CB	150
				Blue	569895	PEN-5/8-BL-150-CB	150

1) Packaging unit

Plastic tubing PEN, standard O.D., Inch

Ordering data – Modular product

Ordering table (minimum order quantity 9,000 ft up to OD 1/4, 4,500 ft from OD 5/16, rounding-off value 50 ft)										
Size	5/32	3/16	1/4	5/16	3/8	1/2	5/8	Condition s	Code	Enter code
[M] Module No.	567448									
Function	Polyethylene tubing, standard O.D., economical								PEN	PEN
Tubing O.D. [inch]	5/32	–	–	–	–	–	–		-5/32	
	–	3/16	–	–	–	–	–		-3/16	
	–	–	1/4	–	–	–	–		-1/4	
	–	–	–	5/16	–	–	–		-5/16	
	–	–	–	–	3/8	–	–		-3/8	
	–	–	–	–	–	1/2	–		-1/2	
	–	–	–	–	–	–	5/8		-5/8	
Colour	Silver								-SI	
	Blue								-BL	
	Black								-SW	
	Yellow								-GE	
	Green								-GN	
	Red								-RT	
	Brown								-BR	
	White								-WS	
	Natural								-NT	
[O] Inscription text (on request)	Standard									
	Customer-specific tubing inscription							[1]	-TXT	
[M] Packaging unit [ft]	150								-150	
	500								-500	
	1,000					–	–		-1000	
	1,500			–	–	–	–		-1500	
Packaging	Cardboard box							[2]	-CB	
	Reel							[3]	-HA	

[1] TXT

Only on request

[3] HA

Not with packaging unit 150

[2] CB

Only with packaging unit 150

Transfer order code

567448 **PEN** – – – – –

Plastic tubing PLN, standard O.D., Inch

Technical data

Plastic tubing PLN

-Q- Ambient temperature
-22 ... +176 °F

Compressed air tubing made of polyethylene is distinguished by great resistance to chemicals and hydrolysis. It is resistant to most cleaning agents and lubricants.

Pressure
operating pressure
-14.4 ... +203 psi

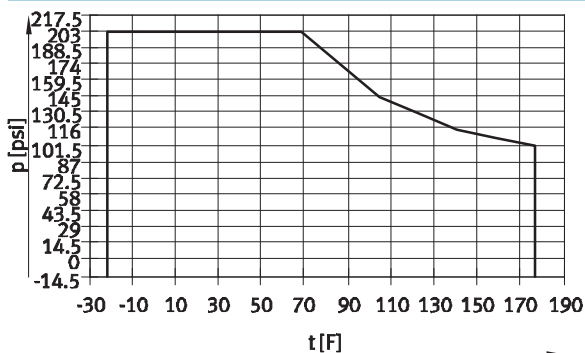
Material:
PE

The tubing is certified for use with drinking water by Germany's Water Technology Centre.

Note on materials:
Free of copper and PTFE
RoHS-compliant



Operating pressure p as a function of temperature t



Possible fittings



Push-in fitting QS-U,
Quick Star
→ Internet: qs*-u



Push-in fitting QB-U,
Quick Basic
→ Internet: qb*-u

Dimensions and ordering data							
Outside diameter [inch]	Min. bending radius [ft]	Bending radius relevant for flow rate [ft]	Weight [oz/ft]	Colour	Part No.	Type	PU ¹⁾ [ft]
5/32	0.039	0.082	0.065	Natural	569897	PLN-5/32-NT-150-CB	150
				Black	569905	PLN-5/32-SW-150-CB	150
				Blue	569913	PLN-5/32-BL-150-CB	150
3/16	0.036	0.095	0.107	Natural	569898	PLN-3/16-NT-150-CB	150
				Black	569906	PLN-3/16-SW-150-CB	150
				Blue	569914	PLN-3/16-BL-150-CB	150
1/4	0.039	0.105	0.180	Natural	569899	PLN-1/4-NT-150-CB	150
					575897	PLN-1/4-NT-500-HA	500
				Black	569907	PLN-1/4-SW-150-CB	150
					575896	PLN-1/4-SW-500-HA	500
5/16	0.082	0.164	0.231	Natural	569915	PLN-1/4-BL-150-CB	150
				Natural	569900	PLN-5/16-NT-150-CB	150
				Black	569908	PLN-5/16-SW-150-CB	150
3/8	0.115	0.187	0.403	Blue	569916	PLN-5/16-BL-150-CB	150
				Natural	569901	PLN-3/8-NT-150-CB	150
				Black	569909	PLN-3/8-SW-150-CB	150
1/2	0.138	0.213	0.580	Blue	569917	PLN-3/8-BL-150-CB	150
				Natural	569902	PLN-1/2-NT-150-CB	150
				Black	569910	PLN-1/2-SW-150-CB	150
5/8	0.197	0.311	0.881	Blue	569918	PLN-1/2-BL-150-CB	150
				Natural	569903	PLN-5/8-NT-150-CB	150
				Black	569911	PLN-5/8-SW-150-CB	150
				Blue	569919	PLN-5/8-BL-150-CB	150

1) Packaging unit

Plastic tubing PLN, standard O.D., Inch

Ordering data – Modular product

Ordering table (minimum order quantity 9,000 ft up to OD 1/4, 4,500 ft from OD 5/16, rounding-off value 50 ft)										
Size	5/32	3/16	1/4	5/16	3/8	1/2	5/8	Condition s	Code	Enter code
[M] Module No.	567449									
Function	Polyethylene tubing, standard O.D., resistant to cleaning agents (approved for use in the food industry)								PLN	PLN
Tubing O.D. [inch]	5/32	–	–	–	–	–	–		-5/32	
	–	3/16	–	–	–	–	–		-3/16	
	–	–	1/4	–	–	–	–		-1/4	
	–	–	–	5/16	–	–	–		-5/16	
	–	–	–	–	3/8	–	–		-3/8	
	–	–	–	–	–	1/2	–		-1/2	
	–	–	–	–	–	–	5/8		-5/8	
Colour	Silver								-SI	
	Blue								-BL	
	Black								-SW	
	Yellow								-GE	
	Green								-GN	
	Red								-RT	
	Brown								-BR	
	White								-WS	
	Natural								-NT	
[O] Inscription text (on request)	Standard									
	Customer-specific tubing inscription							[1]	-TXT	
[M] Packaging unit [ft]	150								-150	
	500								-500	
	1,000					–	–		-1000	
	1,500			–	–	–	–		-1500	
	Packaging									
	Cardboard box							[2]	-CB	
	Reel							[3]	-HA	

[1] TXT

Only on request

[3] HA

Not with packaging unit 150

[2] CB

Only with packaging unit 150

Transfer order code

567449 **PLN** – – – – –

Plastic tubing PUN-H, standard O.D., hydrolysis-resistant, Inch

FESTO

Technical data

Plastic tubing PUN-H

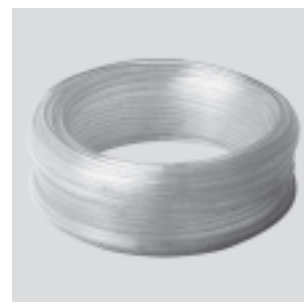
-Q- Ambient temperature
-31 ... +145 °F

Approved for use in the food industry.

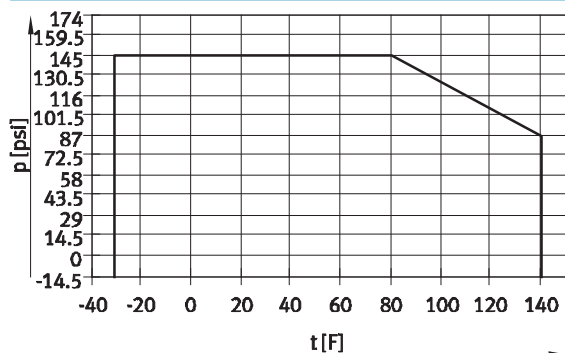
Pressure
operating pressure
-14.4 ... +145 psi

Material:
TPE-U (PU)

Note on materials:
Free of copper and PTFE
RoHS-compliant



Operating pressure p as a function of temperature t



Possible fittings



Push-in fitting QS-U,
Quick Star
→ Internet: qs*-u



Push-in fitting QB-U,
Quick Basic
→ Internet: qb*-u

Dimensions and ordering data

Outside diameter [inch]	Min. bending radius [ft]	Bending radius relevant for flow rate [ft]	Weight [oz/ft]	Colour	Part No.	Type	PU ¹⁾ [ft]
1/8	0.020	0.039	0.060	Silver	567937	PUN-H-1/8-SI-150-CB	150
				Blue	567945	PUN-H-1/8-BL-150-CB	150
				Black	567953	PUN-H-1/8-SW-150-CB	150
				Natural	567961	PUN-H-1/8-NT-150-CB	150
				Yellow	567969	PUN-H-1/8-GE-150-CB	150
				Green	567977	PUN-H-1/8-GN-150-CB	150
				Red	567985	PUN-H-1/8-RT-150-CB	150
				Brown	567993	PUN-H-1/8-BR-150-CB	150
				White	568001	PUN-H-1/8-WE-150-CB	150
5/32	0.020	0.052	0.090	Silver	567938	PUN-H-5/32-SI-150-CB	150
				Silver	568009	PUN-H-5/32-SI-500-HA	500
				Blue	567946	PUN-H-5/32-BL-150-CB	150
				Blue	568013	PUN-H-5/32-BL-500-HA	500
				Black	567954	PUN-H-5/32-SW-150-CB	150
				Black	568017	PUN-H-5/32-SW-500-HA	500
				Natural	567962	PUN-H-5/32-NT-150-CB	150
				Yellow	567970	PUN-H-5/32-GE-150-CB	150
				Green	567978	PUN-H-5/32-GN-150-CB	150
				Red	567986	PUN-H-5/32-RT-150-CB	150
				Brown	567994	PUN-H-5/32-BR-150-CB	150
				White	568002	PUN-H-5/32-WE-150-CB	150

1) Packaging unit

Plastic tubing PUN-H, standard O.D., hydrolysis-resistant, Inch

FESTO

Technical data

Dimensions and ordering data							
Outside diameter	Min. bending radius	Bending radius relevant for flow rate	Weight	Colour	Part No.	Type	PU ¹⁾
[inch]	[ft]	[ft]	[oz/ft]				[ft]
3/16	0.025	0.069	0.130	Silver	567939	PUN-H-3/16-SI-150-CB	150
				Blue	567947	PUN-H-3/16-BL-150-CB	150
				Black	567955	PUN-H-3/16-SW-150-CB	150
				Natural	567963	PUN-H-3/16-NT-150-CB	150
				Yellow	567971	PUN-H-3/16-GE-150-CB	150
				Green	567979	PUN-H-3/16-GN-150-CB	150
				Red	567987	PUN-H-3/16-RT-150-CB	150
				Brown	567995	PUN-H-3/16-BR-150-CB	150
				White	568003	PUN-H-3/16-WE-150-CB	150
1/4	0.032	0.085	0.230	Silver	567940	PUN-H-1/4-SI-150-CB	150
				Silver	568010	PUN-H-1/4-SI-500-HA	500
				Blue	567948	PUN-H-1/4-BL-150-CB	150
				Blue	568014	PUN-H-1/4-BL-500-HA	500
				Blue	568021	PUN-H-1/4-BL-1000-HA	1000
				Black	567956	PUN-H-1/4-SW-150-CB	150
				Black	568018	PUN-H-1/4-SW-500-HA	500
				Black	568023	PUN-H-1/4-SW-1000-HA	1000
				Natural	567964	PUN-H-1/4-NT-150-CB	150
				Yellow	567972	PUN-H-1/4-GE-150-CB	150
				Green	567980	PUN-H-1/4-GN-150-CB	150
				Red	567988	PUN-H-1/4-RT-150-CB	150
				Brown	567996	PUN-H-1/4-BR-150-CB	150
				White	568804	PUN-H-1/4-WE-150-CB	150
5/16	0.065	0.121	0.310	Silver	567941	PUN-H-5/16-SI-150-CB	150
				Silver	568011	PUN-H-5/16-SI-500-HA	500
				Blue	567949	PUN-H-5/16-BL-150-CB	150
				Blue	568015	PUN-H-5/16-BL-500-HA	500
				Blue	568022	PUN-H-5/16-BL-1000-HA	1000
				Black	567957	PUN-H-5/16-SW-150-CB	150
				Black	568019	PUN-H-5/16-SW-500-HA	500
				Black	568024	PUN-H-5/16-SW-1000-HA	1000
				Natural	567965	PUN-H-5/16-NT-150-CB	150
				Yellow	567973	PUN-H-5/16-GE-150-CB	150
				Green	567981	PUN-H-5/16-GN-150-CB	150
				Red	567989	PUN-H-5/16-RT-150-CB	150
				Brown	567997	PUN-H-5/16-BR-150-CB	150
				White	568005	PUN-H-5/16-WE-150-CB	150

1) Packaging unit

Plastic tubing PUN-H, standard O.D., hydrolysis-resistant, Inch

FESTO

Technical data

Dimensions and ordering data							
Outside diameter	Min. bending radius	Bending radius relevant for flow rate	Weight	Colour	Part No.	Type	PU ¹⁾
[inch]	[ft]	[ft]	[oz/ft]				[ft]
3/8	0.081	0.171	0.480	Silver	567942	PUN-H-3/8-SI-150-CB	150
				Silver	568012	PUN-H-3/8-SI-500-HA	500
				Blue	567950	PUN-H-3/8-BL-150-CB	150
				Blue	568016	PUN-H-3/8-BL-500-HA	500
				Black	567958	PUN-H-3/8-SW-150-CB	150
				Black	568020	PUN-H-3/8-SW-500-HA	500
				Natural	567966	PUN-H-3/8-NT-150-CB	150
				Yellow	567974	PUN-H-3/8-GE-150-CB	150
				Green	567982	PUN-H-3/8-GN-150-CB	150
				Red	567990	PUN-H-3/8-RT-150-CB	150
				Brown	567998	PUN-H-3/8-BR-150-CB	150
				White	568006	PUN-H-3/8-WE-150-CB	150
1/2	0.075	0.204	0.880	Silver	567943	PUN-H-1/2-SI-150-CB	150
				Blue	567951	PUN-H-1/2-BL-150-CB	150
				Black	567959	PUN-H-1/2-SW-150-CB	150
				Natural	567967	PUN-H-1/2-NT-150-CB	150
				Yellow	567975	PUN-H-1/2-GE-150-CB	150
				Green	567983	PUN-H-1/2-GN-150-CB	150
				Red	567991	PUN-H-1/2-RT-150-CB	150
				Brown	567999	PUN-H-1/2-BR-150-CB	150
				White	568007	PUN-H-1/2-WE-150-CB	150
5/8	0.125	0.288	1.380	Silver	567944	PUN-H-5/8-SI-150-CB	150
				Blue	567952	PUN-H-5/8-BL-150-CB	150
				Black	567960	PUN-H-5/8-SW-150-CB	150
				Natural	567968	PUN-H-5/8-NT-150-CB	150
				Yellow	567976	PUN-H-5/8-GE-150-CB	150
				Green	567984	PUN-H-5/8-GN-150-CB	150
				Red	567992	PUN-H-5/8-RT-150-CB	150
				Brown	568000	PUN-H-5/8-BR-150-CB	150
				White	568008	PUN-H-5/8-WE-150-CB	150

1) Packaging unit

Plastic tubing PUN-H, standard O.D., hydrolysis-resistant, Inch

Ordering data – Modular product

Ordering table (minimum order quantity 9,000 ft up to OD 1/4, 4,500 ft from OD 5/16, rounding-off value 50 ft)											
Size	1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	Condition s	Code	Enter code
[M] Module No.	567446										
Function	Polyurethane tubing, standard O.D.									PUN	PUN
Alternative material characteristic	Hydrolysis-resistant									-H	
[M] Tubing O.D. [inch]	1/8	–	–	–	–	–	–	–		-1/8	
	–	5/32	–	–	–	–	–	–		-5/32	
	–	–	3/16	–	–	–	–	–		-3/16	
	–	–	–	1/4	–	–	–	–		-1/4	
	–	–	–	–	5/16	–	–	–		-5/16	
	–	–	–	–	–	3/8	–	–		-3/8	
	–	–	–	–	–	–	1/2	–		-1/2	
	–	–	–	–	–	–	–	5/8		-5/8	
	Colour										
	Silver									-SI	
	Blue									-BL	
	Black									-SW	
	Yellow									-GE	
	Green									-GN	
	Red									-RT	
	Brown									-BR	
	White									-WS	
	Natural								[4]	-NT	
[O] Inscription text (on request)	Standard										
	Customer-specific tubing inscription								[1]	-TXT	
[M] Packaging unit [ft]	150									-150	
	500									-500	
	1,000						–	–		-1000	
	1,500					–	–	–		-1500	
	Packaging										
	Cardboard box								[2]	-CB	
	Reel								[3]	-HA	

[1] TXT Only on request
[2] CB Only with packaging unit 150

[3] HA Not with packaging unit 150
[4] NT Only with alternative material characteristic H

Transfer order code

567446 **PUN** – – – – –

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components
Complete custom engineered solutions



Custom Control Cabinets
Comprehensive engineering support and on-site services



Complete Systems
Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical
Electromechanical actuators, motors, controllers & drives



Pneumatics
Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices
PLC's, operator interfaces, sensors and I/O devices

Supporting Advanced Automation... As No One Else Can!

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