

FESTO

Festo Essentials

Featuring pneumatic products from the Festo ★ Core Program

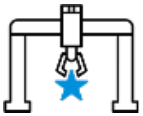
Innovative products • Quick delivery • Great value



www.festo.com

The right solution... right now

The Festo Essentials are everyday products for users looking for simple, cost-effective pneumatic systems. This select range of products includes compact and robust valves, guided and mini slide units, compact cylinders, regulators, filter regulators and tubing. And each one is part of the Festo core range, which means:



Innovative products



Quick delivery



Great value

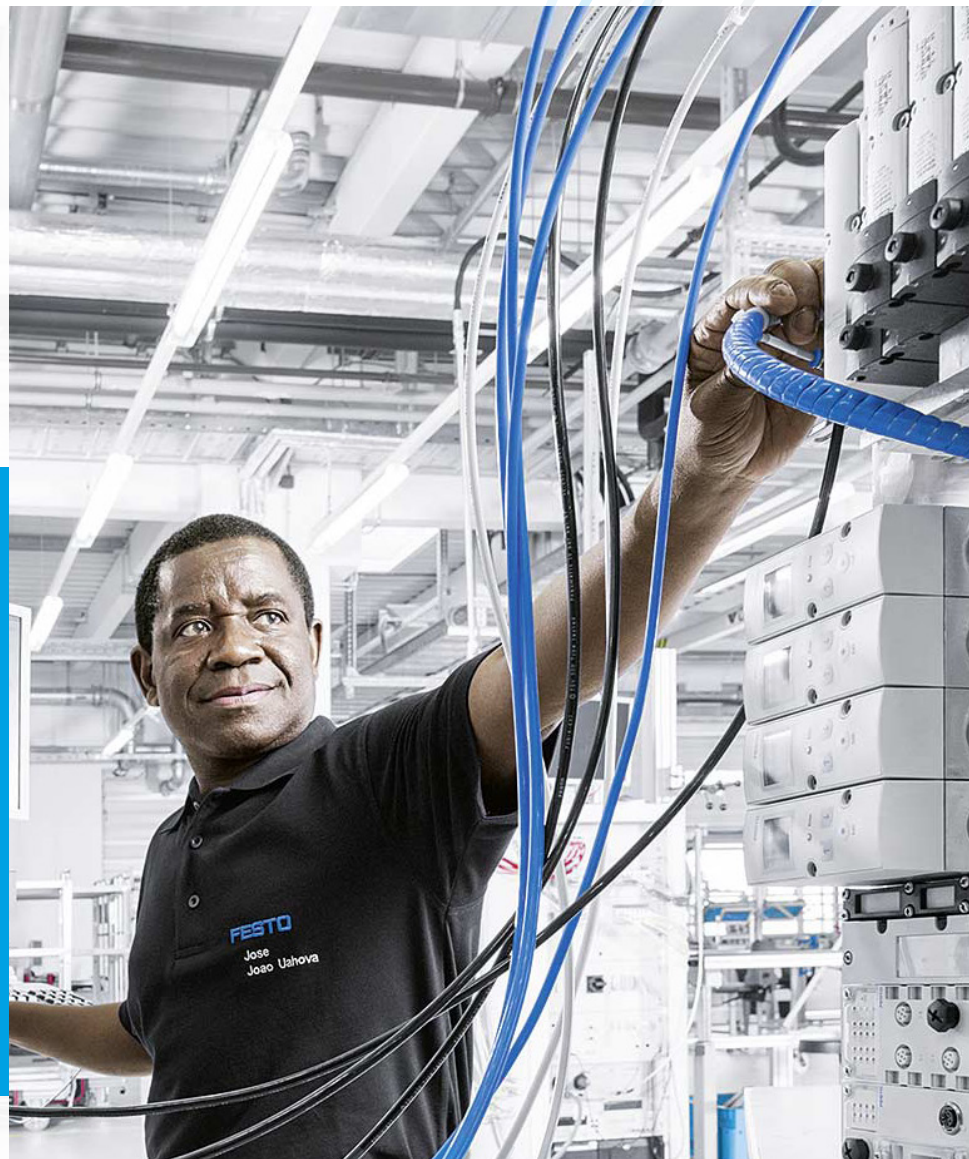


For access to our complete catalog of products.

To fully leverage the power and potential of intelligent automation, today's business leaders and engineers need more than just the latest control module or pneumatic valve. They need an intelligent automation partner with the proven expertise and holistic approach capable of delivering on even the most ambitious visions.

Festo is that partner.

For nearly a hundred years we have provided proven industry leadership, superior quality products, and global training and support that the world's most successful businesses rely on. We're ready to bring those same advantages to you. Partnering with Festo provides your teams and operations with energy-efficient automation products, solutions and training that will help you improve your productivity now and in the years to come.



Your first choice products for simple, cost-effective pneumatic systems

Mini slide
DGST



Compact, yet big on performance and precision

A real space-saver: the compact and short slide unit features integrated cushioning components and sensor mounts. The mini slide delivers maximum precision across the entire stroke thanks to the combination of yoke and slide in one part and the recirculating ball bearing guide underneath it. The large range of cushioning options together with the use of position transmitters opens up numerous applications.

Areas of application

- Pick and place handling
- Precise positioning and press-fitting.
- Ideal for electronics and light assembly machine building industries.

Guided drive
DFM



A true guiding light!

Robustness is the name of the game with the DFM. This impressive guided drive has the best price/performance ratio in the market and offers optimum guide characteristics, sturdiness and flexibility. It is reliable, adaptable and resilient – even with high torques. The combination of linear drive and powerful guide in a compact unit means that the DFM can reliably move high loads, even in tight spaces.

Areas of application

- Excellent operational stability compared to standard drives.
- High resistance to torques and lateral forces.
- Good for tasks involving clamping, stopping, pushing, pulling, restraining, holding, cutting, stopping and separating.

Compact cylinders
ADN-S and ADN-ISO



Compact cylinders ADN-S and ADN-ISO

ISO standards-based ADN or the ultra compact short stroke ADN-S? The compact cylinder ADN is always a solid choice when it comes to performance and compact dimensions. When space is tight, the ADN-S, our counterpart to the standards based cylinder, is an even more compact variant for even greater space savings. Both offer integrated magnet for position sensing and the choice of male or female rod threads.

Areas of application

- Linear short stroke movements.
- Pushing or pulling without any lateral loads.
- Assembly and testing machine building.

Electronic proximity switch
SDBT-MSX



The programmable proximity switch with auto teach-in

The first proximity switch with automatic switching point setting makes commissioning easier than ever before. With its detection range of 20 mm, it is easy and reliable to install, especially in applications where mounting is difficult. SDBT-MSX is ideal for all standard applications, especially in factory automation and the electronics industry/ small parts handling.

Areas of application

- End position feedback.
- Hard to reach or limited space installation.
- 100% compatible with drives with T-slot (DSBC, DFM, DSNU/S, ADN/S, DGST).

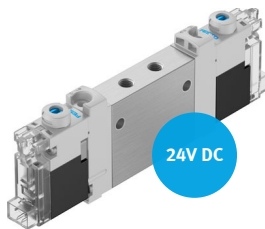


Core Range

Festo's Core Range contains a selection of products that can be used to solve the majority of automation tasks. Available worldwide and quickly, even in large quantities.

★ Available quickly and worldwide

Compact valve VUVG-S



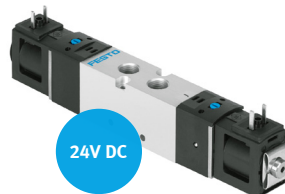
Get more power from a smaller design

Compact, inexpensive, high performance and installed in a flash. They're the perfect choice for all high-speed applications requiring a particularly high flow rate combined with a compact size. They offer essential features at an attractive price with the proven Festo quality.

Areas of application

- Designed for small to medium flow.
- Perfect for limited space requirements.
- Suitable for majority of applications including: electronics, food and end line packaging, textile, mobile applications, light assembly, conveyor systems.
- The lightweight aluminum housing is ideal for direct mounting on robot arms or cylinders.

High flow valve VUVS-S



The robust valve for harsh environments

High flow rate and elegant design. This series is a perfect example of heavy-duty pneumatics offering reliable operation at a great price. Combines features required for operation in harsh environments such as impact resistance, ease of installation, and mounting options, including manifolds.

Areas of application

- Single installations.
- Conveyor divertors and stops.
- Suitable for manifold mounting.
- Basic valves with focused features for 24V DC.
- Designed for medium to large flows.

Air preparation MS-B Basic



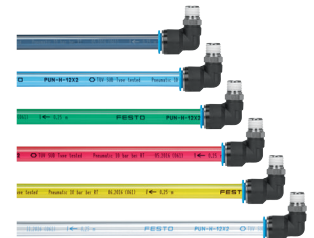
Light weight, compact and incredibly powerful

Advanced polymer materials make these compressed air regulators and filter-regulator and electric on/off valves up to 50% lighter than competitive products and just as robust. This optimized design combines very high flow rates with extremely stable pressure control behavior ensuring smooth processes. These powerful, lightweight, and cost-efficient components are ideal for use directly in a machine which favors application in the electronics industry.

Areas of application

- End of arm tooling, small parts assembly within the electronics industry.
- Where space restraints exist.
- Designed to bring the control closer to the process for optimized machine performance.

Polyurethane tube PUN-H



Detect solid particles, moisture or oil in the line

PUN-H is the go-to-tube for a wide variety of applications including the exposure to wet environments, humidity and even outside thanks to its corrosion resistant properties. Combined with its high kink resistance, it's the ideal choice when selecting tubing for uninterrupted and reliable air supply. Thanks to its high quality base material, it is suitable for use both in the food industry and outdoors. Both transparent and non-transparent colors are available.

Areas of application

- General pneumatic automation.
- Applications within the food zone thanks to FDA compliant material.
- Environments with high moisture levels, weather resistant and resistance to UV radiation (black color).

The hallmarks of Festo products:

- Well designed
- Built-in reliability
- Easy to install
- Superb quality
- Quick delivery



Your first choice products for simple, cost-effective pneumatic systems

Flow Control
VFOE



Big in performance, small in size

Compact machines require compact components. The new VFOE adjustable one-way flow control valve, with push-to-lock adjustment feature, is perfect for applications requiring compact components. Additionally, the VFOE has many variants, easy commissioning, extremely light weight and attractively priced. So many benefits in such a small package.

Areas of application

- Where controlling cylinder speed is essential to the application.
- Installation in tight spaces, e.g. in the electronics industry.
- Any standard application within the pneumatic automation industry.

Round cylinder
DSNU-S and **DSNU-ISO**



Round cylinders ideal for small spaces

ISO standards-based DSNU or the smaller and even slimmer DSNU-S? The round cylinder DSNU is always a solid choice when it comes to performance and compact dimensions. Its universal variants make it ideal in applications where low friction, chemical resistance or corrosion resistance are required.

When space is tight, the DSNU-S, our counterpart to the standards based cylinder, is an even slimmer and shorter variant for even greater space savings.

Both are available with self-adjusting pneumatic end-position cushioning which adapts optimally to changes in load and speed.

Areas of application

- Linear, short to medium stroke movements.
- Pushing or pulling with minimal lateral loads.
- DSNU provides direct interchange with other round cylinders meeting the ISO 6432 norm.
- DSNU-S is ideal for use in tight spaces with direct mounting.

ISO standard profile cylinder
DSBC



Profile cylinder to ISO 15552 with a wide range of mounting options

The DSBC is a standard profile cylinder that meets the ISO 15552 norm for interchange. Features include a piston designed for impact energy absorption providing maximum speed. Adjustable or self-adjusting end-position cushioning, two slots for cylinder switch mounting and piston magnet for position sensing. The DSBC also has a comprehensive range of mounting accessories for just about every type of installation.

Areas of application

- Linear medium to long stroke movements.
- Pushing or pulling with moderate lateral loads.
- Process control, automatic screw/riveting machines

Round inch cylinder
DPRA



Direct interchangeability with common inch round-body cylinders

The DPRA is Festo's direct interchange inch round-body pneumatic cylinder. Superior performance due to 303 stainless steel piston rod and 304 stainless housing providing corrosion resistance, low friction and long life. Oil-impregnated piston rod bushing and low friction U-cup seals create a pneumatic cylinder with efficient performance, superior service life and reliability. Premium lubrication provides excellent running characteristics and outstanding efficiency.

Areas of application

- Offers direct interchangeability within the product classification of non-repairable round-body cylinders.
- Optional high temperature and low temperature seals are available for special environments.
- An extensive range of variants and mounting accessories for most applications.

Compact inch cylinder
DPCA



Fits to tight spaces, ideal for clamping and holding

Robust construction due to high quality, solid aluminum construction. The smooth, cylindrical body with protective clear anodized coating enables superior corrosion resistance. Premium lubrication provides excellent running characteristics and outstanding efficiency. Self-lubricating piston rod bearing and internally lubricated seals enables superior service life and reliability. Offers an extensive range of variants and mounting accessories for most applications.

Areas of application

- Self-lubricating piston rod bearing and internally lubricated seals enables superior service life and reliability.
- Available in a wide range of bore sizes from 1/2" to 4", and stroke lengths up to 4" as standard.
- Unique adjustable stroke version enables manual and precise stroke adjustment.
- An extensive range of variants and mounting accessories for most applications.

Compact inch cylinder
DPCB



Superior reliability and service life

Superior performance due to high strength composite cylinder barrel with exceptional low friction and heat reducing operation. Captive rod seals and rod bearing allow for hassle-free operation, and premium lubrication provides excellent running characteristics and outstanding efficiency. The robust construction with clear anodized aluminum heads, stainless steel tie rods and hard chrome piston rods provide a durable cylinder for many applications.

Areas of application

- DPCB offers direct interchangeability within the product classification of compact pancake cylinders.
- Available in a wide range of bore sizes from 1/2" to 4", and stroke lengths, up to 4" as standard.
- An extensive range of variants and mounting accessories for most applications.
- CAD models for easier and faster design.

NFPA cylinder
DSNA



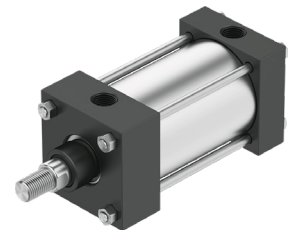
The corrosion resistant and robust design make it an ideal choice

Repairable, pneumatic cylinder conforming to NFPA interchange dimensions. The cost-optimized design makes this an ideal choice for OEM machinery manufacturers. Sturdy construction with stainless steel tie-rods makes this cylinder highly suitable for industries like construction, agriculture, packaging and the automotive industry.

Areas of application

- Direct interchangeability with NFPA cylinders.
- Available in a range of bore sizes from 1.5" to 4".
- Corrosion resistant construction and special rod bushing make it suitable for harsh environments and high workload applications like stamping, construction and packaging.

NFPA cylinder
DSNB



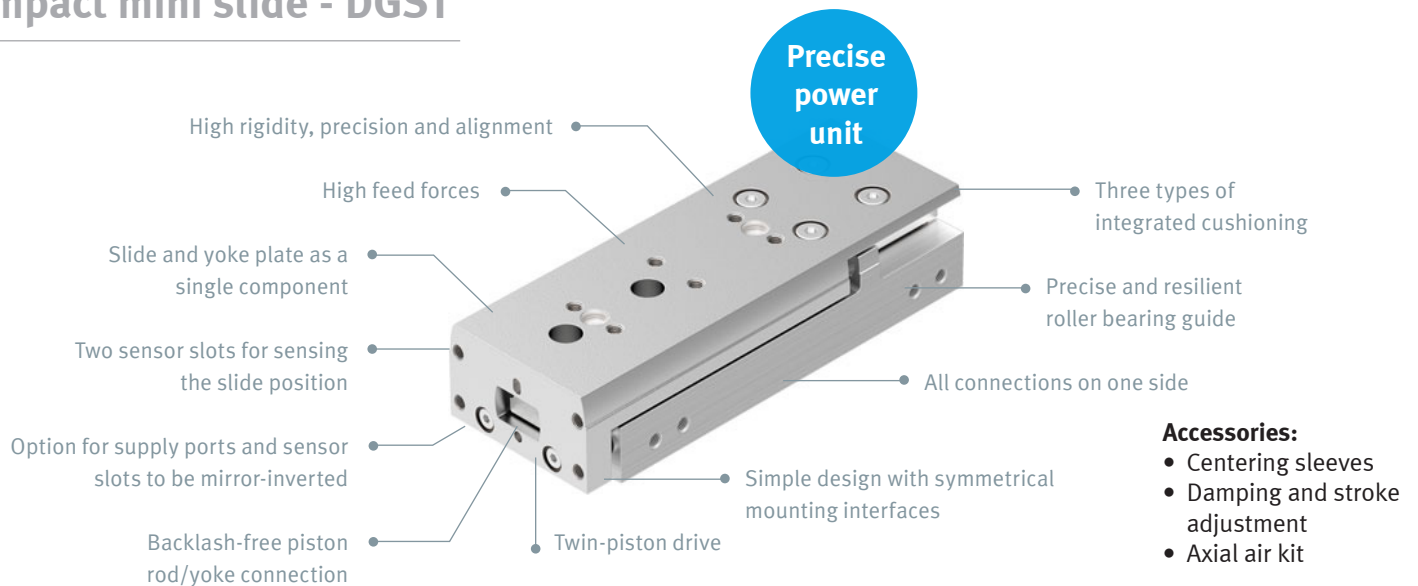
Robust construction with comprehensive product range

Pneumatic tie-rod cylinder conforming to NFPA interchange dimensions. The robust construction with a high strength steel, hard chrome-plated piston rod, large composite rod bearing, and a solid aluminum piston with PTFE wear band make it suitable for high workload applications. Polyurethane seals, premium lubrication and hard anodized cylinder ID provide excellent running characteristics, superior service life and reliability.

Areas of application

- Direct interchangeability with NFPA cylinders.
- Available in a range of bore sizes from 1.5" to 6".
- Comprehensive range of mounting styles and options.
- Ability to be customized to meet unique application requirements.

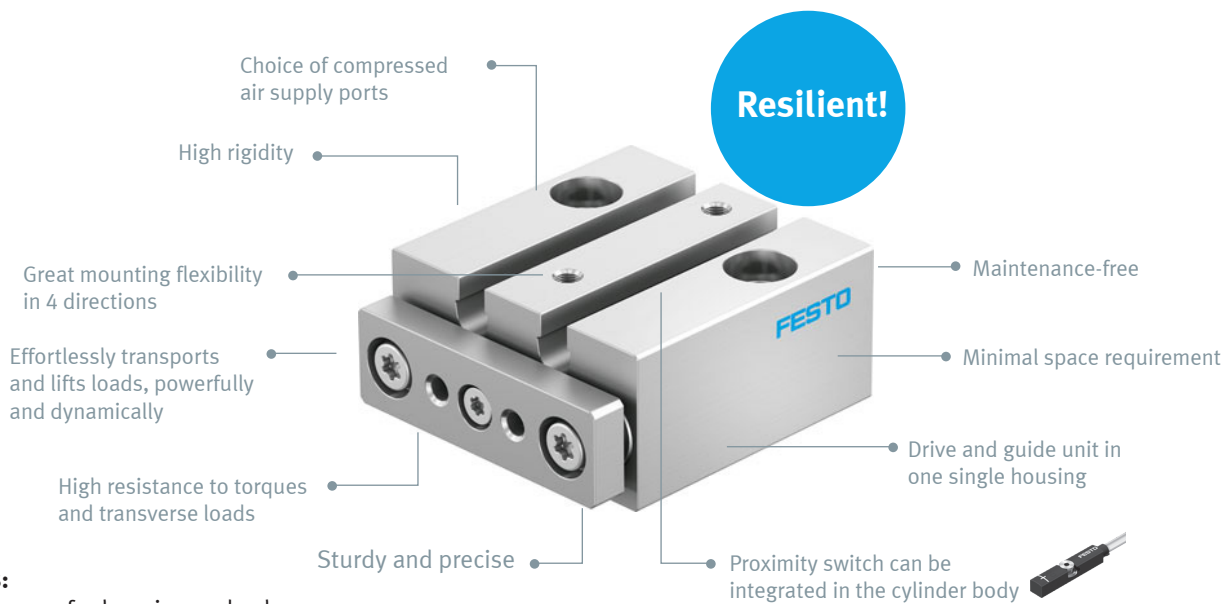
Compact mini slide - DGST



Size [mm]	6	8	10	12	16	20	25
Stroke [mm]	Cushioning E1: Elastic cushioning at both ends, no end-position adjustment						
10	8078828 ★	8078833 ★	8078839 ★	8078846 ★	8078853 ★	8078862 ★	8078872 ★
20	8078829 ★	8078834 ★	8078840 ★	8078847 ★	8078854 ★	8078863 ★	8078873 ★
30	8078830 ★	8078835 ★	8078841 ★	8078848 ★	8078855 ★	8078864 ★	8078874 ★
40	8078831 ★	8078836 ★	8078842 ★	8078849 ★	8078856 ★	8078865 ★	8078875 ★
50	8078832 ★	8078837 ★	8078843 ★	8078850 ★	8078857 ★	8078866 ★	8078876 ★
80		8078838 ★	8078844 ★	8078851 ★	8078858 ★	8078867 ★	8078877 ★
100			8078845 ★	8078852 ★	8078859 ★	8078868 ★	8078878 ★
125					8078860 ★	8078869 ★	8078879 ★
150					8078861 ★	8078870 ★	8078880 ★
200						8078871 ★	8078881 ★
Stroke [mm]	Cushioning P: Elastic cushioning at both ends, non-adjustable, with end-position adjustment						
10	8085105 ★	8085110 ★	8085116 ★	8085123 ★	8085130 ★	8085139 ★	8085149 ★
20	8085106 ★	8085111 ★	8085117 ★	8085124 ★	8085131 ★	8085140 ★	8085150 ★
30	8085107 ★	8085112 ★	8085118 ★	8085125 ★	8085132 ★	8085141 ★	8085151 ★
40	8085108 ★	8085113 ★	8085119 ★	8085126 ★	8085133 ★	8085142 ★	8085152 ★
50	8085109 ★	8085114 ★	8085120 ★	8085127 ★	8085134 ★	8085143 ★	8085153 ★
80		8085115 ★	8085121 ★	8085128 ★	8085135 ★	8085144 ★	8085154 ★
100			8085122 ★	8085129 ★	8085136 ★	8085145 ★	8085155 ★
125					8085137 ★	8085146 ★	8085156 ★
150					8085138 ★	8085147 ★	8085157 ★
200						8085148 ★	8085158 ★
Stroke [mm]	Cushioning Y12: Shock absorbers at both ends, self-adjusting, with end-position adjustment						
30	8085159 ★	8085162 ★	8085166 ★	8085171 ★	8085176 ★	8085183 ★	8085191 ★
40	8085160 ★	8085163 ★	8085167 ★	8085172 ★	8085177 ★	8085184 ★	8085192 ★
50	8085161 ★	8085164 ★	8085168 ★	8085173 ★	8085178 ★	8085185 ★	8085193 ★
80		8085165 ★	8085169 ★	8085174 ★	8085179 ★	8085186 ★	8085194 ★
100			8085170 ★	8085175 ★	8085180 ★	8085187 ★	8085195 ★
125					8085181 ★	8085188 ★	8085196 ★
150					8085182 ★	8085189 ★	8085197 ★
200						8085190 ★	8085198 ★



Guided drive - DFM



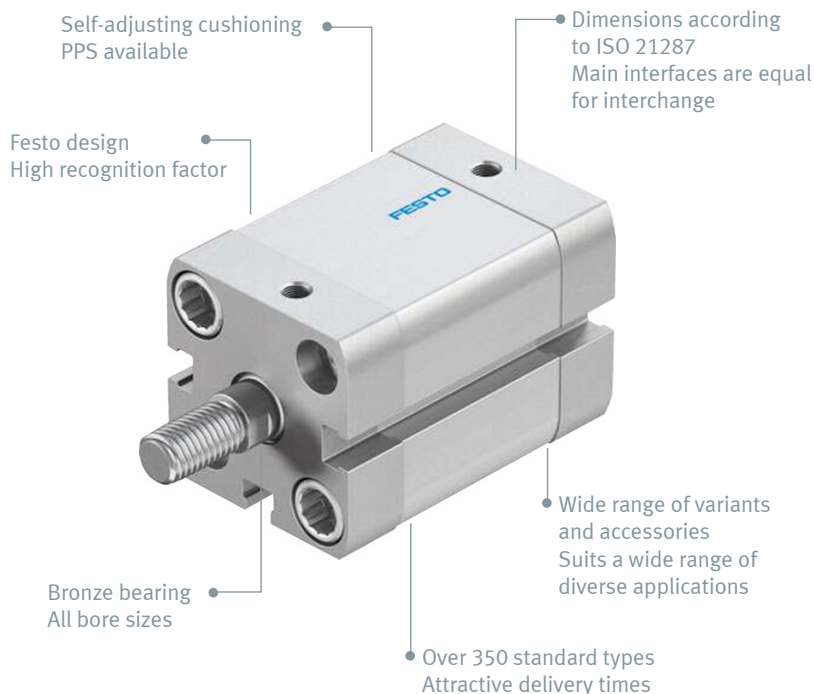
Accessories:

Centering sleeves for housing and yoke

Piston	6	10	12	16	20	25	32	40	50	63
Port	M3		M5			G1/8			G1/4	
Stroke [mm]	Plain-bearing guide GF - high rigidity thanks to large-diameter guide rods and four plain-bearing bushes									
5	4149944 ★	4154768 ★								
10	4149945 ★	4154769 ★	170824 ★	170832 ★						
15	4149946 ★	4154770 ★								
20	4149947 ★	4154799 ★	170825 ★	170833 ★	170840 ★	170847 ★	170854 ★			
25			170826 ★	170834 ★	170841 ★	170848 ★	170855 ★	170864 ★	170871 ★	170878 ★
30			170827 ★	170835 ★	170842 ★	170849 ★	170856 ★			
40			170828 ★	170836 ★	170843 ★	170850 ★	170857 ★			
50			170829 ★	170837 ★	170844 ★	170851 ★	170858 ★	170865 ★	170872 ★	170879 ★
80			170830 ★	170838 ★	170845 ★	170852 ★	170859 ★	170866 ★	170873 ★	170880 ★
100			170831 ★	170839 ★	170846 ★	170853 ★	170860 ★	170867 ★	170874 ★	170881 ★
125							170861 ★	170868 ★	170875 ★	170882 ★
160							170862 ★	170869 ★	170876 ★	170883 ★
200							170863 ★	170870 ★	170877 ★	170884 ★
Stroke [mm]	Recirculating ball bearing guide KF for applications involving torque loads									
10			170899 ★	170907 ★						
20			170900 ★	170908 ★	170915 ★	170922 ★	170929 ★			
25			170901 ★	170909 ★	170916 ★	170923 ★	170930 ★	170939 ★	170946 ★	170953 ★
30			170902 ★	170910 ★	170917 ★	170924 ★	170931 ★			
40			170903 ★	170911 ★	170918 ★	170925 ★	170932 ★			
50			170904 ★	170912 ★	170919 ★	170926 ★	170933 ★	170940 ★	170947 ★	170954 ★
80			170905 ★	170913 ★	170920 ★	170927 ★	170934 ★	170941 ★	170948 ★	170955 ★
100			170906 ★	170914 ★	170921 ★	170928 ★	170935 ★	170942 ★	170949 ★	170956 ★
125							170936 ★	170943 ★	170950 ★	170957 ★
160							170937 ★	170944 ★	170951 ★	170958 ★
200							170938 ★	170945 ★	170952 ★	170959 ★



Compact cylinders - ADN, to ISO 21287



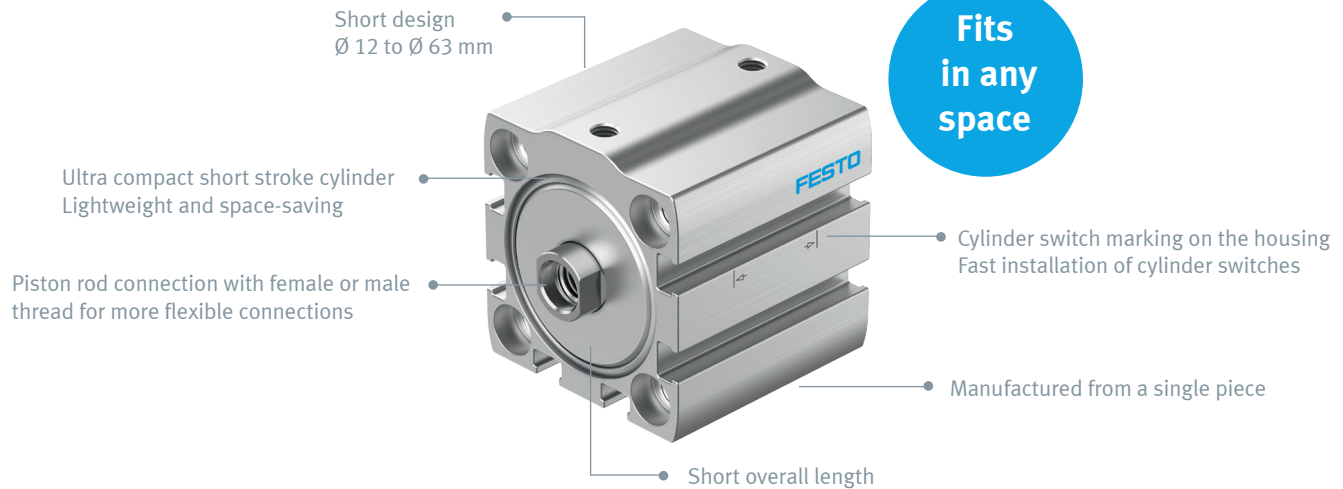
001	002	003	004	005	006
ADN					A
001	Type				
ADN	Standards-based cylinder, double-acting, based on ISO 21287				
002	Piston Ø [mm]				
---	12, 16, 20, 25, 32, 40, 50, 63, 80				
003	Stroke [mm]				
---	5, 10, 15, 20, 25, 30, 40, 50, 80				
004	Piston rod thread type				
A	Male thread				
I	Female thread				
005	Cushioning				
P	Elastic cushioning rings/plates at both ends				
006	Position sensing				
A	Via proximity switch				

Ordering – Basic design

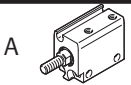
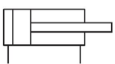
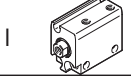
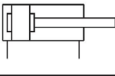
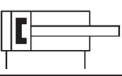
003 Stroke [mm]	002 Piston Ø [mm]								
	12	16	20	25	32	40	50	63	80
	004 Piston rod with male thread – 005 Cushioning – 006 Position sensing								
	A-P-A								
5	536204 ★	536219 ★	536234 ★	536251 ★	536268 ★	536289 ★	536310 ★		
10	536205 ★	536220 ★	536235 ★	536252 ★	536269 ★	536290 ★	536311 ★	536332 ★	536353 ★
15	536206 ★	536221 ★	536236 ★	536253 ★	536270 ★	536291 ★	536312 ★	536333 ★	536354 ★
20	536207 ★	536222 ★	536237 ★	536254 ★	536271 ★	536292 ★	536313 ★	536334 ★	536355 ★
25	536208 ★	536223 ★	536238 ★	536255 ★	536272 ★	536293 ★	536314 ★	536335 ★	536356 ★
30	536209 ★	536224 ★	536239 ★	536256 ★	536273 ★	536294 ★	536315 ★	536336 ★	536357 ★
40	536210 ★	536225 ★	536240 ★	536257 ★	536274 ★	536295 ★	536316 ★	536337 ★	536358 ★
50		536331	536241 ★	536258 ★	536275 ★	536296 ★	536317 ★	536338 ★	536359 ★
60			536352 ★	536373 ★	536276 ★	536297 ★	536318 ★	536339 ★	536360 ★
80					536277 ★	536298 ★	536319 ★	536340 ★	536365 ★
	004 Piston rod with female thread – 005 Cushioning – 006 Position sensing								
	I-P-A								
5	536211 ★	536226 ★	536242 ★	536259 ★	536278 ★	536299 ★	536320 ★		
10	536212 ★	536227 ★	536243 ★	536260 ★	536279 ★	536300 ★	536321 ★	536342 ★	536363 ★
15	536213 ★	536228 ★	536244 ★	536261 ★	536280 ★	536301 ★	536322 ★	536343 ★	536364 ★
20	536214 ★	536229 ★	536245 ★	536262 ★	536281 ★	536302 ★	536323 ★	536344 ★	536365 ★
25	536215 ★	536230 ★	536246 ★	536263 ★	536282 ★	536303 ★	536324 ★	536345 ★	536366 ★
30	536216 ★	536231 ★	536247 ★	536264 ★	536283 ★	536304 ★	536325 ★	536346 ★	536367 ★
40	536217 ★	536232 ★	536248 ★	536265 ★	536284 ★	536305 ★	536326 ★	536347 ★	536368 ★
50		536341 ★	536249 ★	536266 ★	536285 ★	536306 ★	536327 ★	536348 ★	536369 ★
60			536362 ★	536383 ★	536286 ★	536307 ★	536328 ★	536349 ★	536370 ★
80					536287 ★	536308 ★	536329 ★	536350 ★	536371 ★



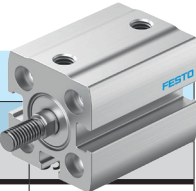
Compact cylinders - ADN-S/AEN-S

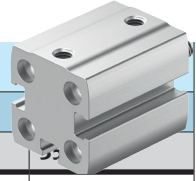


Ordering – small sizes (Ø 6 mm/10 mm)

003 Piston Ø [mm]				ADN-S-6-...		ADN-S-10-...		005 Piston rod thread	006 Cushioning	007 Position sensing
				004 Stroke [mm]		004 Stroke [mm]		A: Male thread I: Female thread	-: Without P: Elastic cush. rings	-: Without A: Via proximity sensor
005	006	007	008	5	10	5	10			
A	-	-	-	8080598	8080596	8080589	8080588		- 	- 
A	-	A	-	8080597	8080595	8080587	8080590		P 	A 
I	-	-	-	4886885 ★	4886886 ★	4887523 ★	4887524 ★			
I	-	A	-	5173732 ★	5173733 ★	5177082 ★	5177085 ★			

Ordering – Ø 12 mm/16 mm

003 Piston Ø [mm]				ADN-S-12-...							
				004 Stroke [mm]							
005	006	007	008	5	10	15	20	25	30		
A	P	-	-	8091419	8091428	8091416	8091420	8091426	8091423	8091418	
A	P	A	-	8091427	8091424	8091422	8091429	8091421	8091417	8091425	
I	P	-	-	8076407 ★	8076419 ★	8076417 ★	8076415 ★	8076413 ★	8076411 ★	8076409 ★	
I	P	A	-	8076406 ★	8076418 ★	8076416 ★	8076414 ★	8076412 ★	8076410 ★	8076408 ★	

003 Piston Ø [mm]				ADN-S-16-...							
				004 Stroke [mm]							
005	006	007	008	5	10	15	20	25	30		
A	P	-	-	8091671	8091670	8091677	8091666	8091665	8091672	8091676	
A	P	A	-	8091668	8091678	8091667	8091674	8091675	8091669	8091673	
I	P	-	-	8076393 ★	8076405 ★	8076403 ★	8076401 ★	8076399 ★	8076397 ★	8076395 ★	
I	P	A	-	8076392 ★	8076404 ★	8076402 ★	8076400 ★	8076398 ★	8076396 ★	8076394 ★	



Ordering – Ø 20 ... 63 mm

003 Piston Ø [mm]				ADN-S-20-...									
				004 Stroke [mm]									
005	006	007	008	5	10	15	20	25	30	35	40	45	50
A	P	-	-	8091431	8091449	8091447	8091445	8091443	8091441	8091439	8091437	8091435	8091433
A	P	A	-	8091430	8091448	8091446	8091444	8091442	8091440	8091438	8091436	8091434	8091432
I	P	-	-	8076323 ★	8076341 ★	8076339 ★	8076337 ★	8076335 ★	8076333 ★	8076331 ★	8076329 ★	8076327 ★	8076325 ★
I	P	A	-	8076322 ★	8076340 ★	8076338 ★	8076336 ★	8076334 ★	8076332 ★	8076330 ★	8076328 ★	8076326 ★	8076324 ★

003 Piston Ø [mm]				ADN-S-25-...									
				004 Stroke [mm]									
005	006	007	008	5	10	15	20	25	30	35	40	45	50
A	P	-	-	8092103	8092102	8092107	8092091	8092092	8092099	8092097	8092094	8092106	8092105
A	P	A	-	8092104	8092093	8092096	8092109	8092100	8092098	8092108	8092095	8092110	8092101
I	P	-	-	8076343 ★	8076361 ★	8076359 ★	8076357 ★	8076355 ★	8076353 ★	8076351 ★	8076349 ★	8076347 ★	8076345 ★
I	P	A	-	8076342 ★	8076360 ★	8076358 ★	8076356 ★	8076354 ★	8076352 ★	8076350 ★	8076348 ★	8076346 ★	8076344 ★

003 Piston Ø [mm]				ADN-S-32-...									
				004 Stroke [mm]									
005	006	007	008	5	10	15	20	25	30	35	40	45	50
A	P	-	-	8091452	8091461	8091460	8091453	8091467	8091465	8091456	8091450	8091451	8091462
A	P	A	-	8091464	8091457	8091469	8091468	8091459	8091454	8091463	8091455	8091466	8091458
I	P	-	-	8076364 ★	8076382 ★	8076380 ★	8076378 ★	8076376 ★	8076374 ★	8076372 ★	8076370 ★	8076368 ★	8076366 ★
I	P	A	-	8076363 ★	8076381 ★	8076379 ★	8076377 ★	8076375 ★	8076373 ★	8076371 ★	8076369 ★	8076367 ★	8076365 ★

003 Piston Ø [mm]				ADN-S-40-...									
				004 Stroke [mm]									
005	006	007	008	5	10	15	20	25	30	35	40	45	50
A	P	A	-	8092050	8092067	8092053	8092064	8092056	8092061	8092051	8092059	8092065	8092054
I	P	-	-	5138596	5138597	5138598	5138599	5138600	5138601	5138602	5138603	5138604	5138605
I	P	A	-	5138606	5138607	5138608	5138609	5138610	5138611	5138612	5138613	5138614	5138615

003 Piston Ø [mm]				ADN-S-50-...									
				004 Stroke [mm]									
005	006	007	008	5	10	15	20	25	30	35	40	45	50
A	P	A	-	8092081	8092073	8092085	8092076	8092075	8092074	8092071	8092087	8092079	8092086
I	P	-	-	5138178	5138179	5138180	5138181	5138182	5138183	5138184	5138185	5138186	5138187
I	P	A	-	5138188	5138189	5138190	5138191	5138192	5138193	5138194	5138195	5138196	5138197

003 Piston Ø [mm]				ADN-S-63-...									
				004 Stroke [mm]									
005	006	007	008	5	10	15	20	25	30	35	40	45	50
A	P	A	-	8092130	8092128	8092135	8092120	8092121	8092125	8092133	8092134	8092138	8092119
I	P	-	-	5132653	5132654	5132655	5132656	5132657	5132658	5132659	5132660	5132661	5132662
I	P	A	-	5132663	5132664	5132665	5132666	5132667	5132668	5132669	5132670	5132671	5132672

Electronic proximity switch - SDBT-MSX

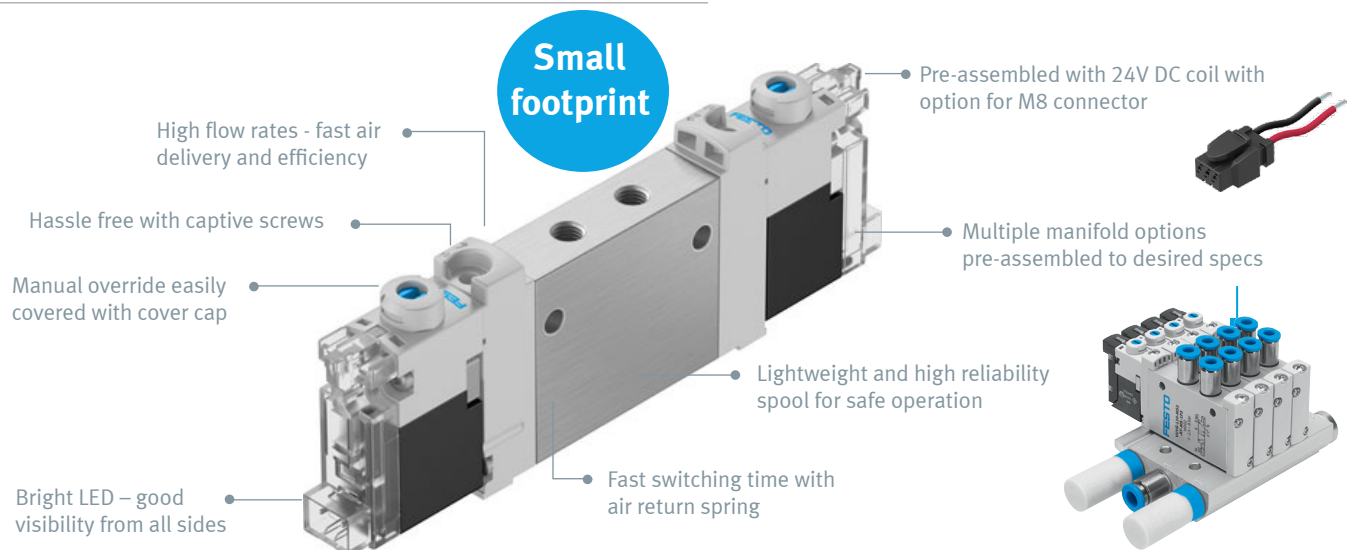


SDBT-MSX automatically learns the switching point during system start-up, as part of auto teach-in.

Part number	Type	Description
8059120 ★	SDBT-MSX-1L-PU-E-0.3-N-M8	PNP/NO preprogrammed, 30 cm cable, 3-pin M8 plug
8059121 ★	SDBT-MSX-1L-PU-E-2.5-N-LE	PNP/NO preprogrammed, 2.5 m cable, 3-wire open end
8059122 ★	SDBT-MSX-1L-PU-E-5-N-LE	PNP/NO preprogrammed, 5.0 m cable, 3-wire open end
8059123 ★	SDBT-MSX-1L-NU-E-0.3-N-M8	NPN/NO preprogrammed, 30 cm cable, 3-pin M8 plug
8059124 ★	SDBT-MSX-1L-NU-E-2.5-N-LE	NPN/NO preprogrammed, 2.5 m cable, 3-wire open end
8059125 ★	SDBT-MSX-1L-NU-E-5-N-LE	NPN/NO preprogrammed, 5.0 m cable, 3-wire open end



Compact valves - VUVG-LK/BK [24V DC]



In-line valves - LK

Connection size	Width [mm]	Part no	Description 	Part no	Description 	Flow rate
With electrical sub-base R8 [3-pin]				With electrical sub-base H2 [2-pin]		
2 x 3/2-way with solenoid coil, normally closed, pneumatic spring 24V DC						
M5	10	8042542 	VUVG-LK10-T32C-AT-M5-1R8L-S	8042538 	VUVG-LK10-T32C-AT-M5-1H2L-S	180 l/min
M7	10	8042550 	VUVG-LK10-T32C-AT-M7-1R8L-S	8042546 	VUVG-LK10-T32C-AT-M7-1H2L-S	280 l/min
G1/8	14	8042566 	VUVG-LK14-T32C-AT-G18-1R8L-S	8042562 	VUVG-LK14-T32C-AT-G18-1H2L-S	570 l/min
5/2-way with solenoid coil single solenoid 24V DC						
M5	10	8042543 	VUVG-LK10-M52-AT-M5-1R8L-S	8042539 	VUVG-LK10-M52-AT-M5-1H2L-S	195 l/min
M7	10	8042551 	VUVG-LK10-M52-AT-M7-1R8L-S	8042547 	VUVG-LK10-M52-AT-M7-1H2L-S	340 l/min
G1/8	14	8042567 	VUVG-LK14-M52-AT-G18-1R8L-S	8042563 	VUVG-LK14-M52-AT-G18-1H2L-S	660 l/min
5/2-way with solenoid coil double solenoid 24V DC						
M5	10	8042544 	VUVG-LK10-B52-T-M5-1R8L-S	8042540 	VUVG-LK10-B52-T-M5-1H2L-S	195 l/min
M7	10	8042552 	VUVG-LK10-B52-T-M7-1R8L-S	8042548 	VUVG-LK10-B52-T-M7-1H2L-S	340 l/min
G1/8	14	8042568 	VUVG-LK14-B52-T-G18-1R8L-S	8042564 	VUVG-LK14-B52-T-G18-1H2L-S	660 l/min

Sub-base valves - BK (connection via supply manifold)

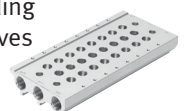
Connection size	Width [mm]	Part no	Description	Part no	Description	Flow rate
With electrical sub-base R8 [3-pin]				With electrical sub-base H2 [2-pin]		
2 x 3/2-way with solenoid coil, normally closed, pneumatic spring 24V DC						
M5/M7	10	8042558 ★	VUVG-BK10-T32C-AT-F-1R8L-S	8042554 ★	VUVG-BK10-T32C-AT-F-1H2L-S	160 l/min
G1/8	14	8042574 ★	VUVG-BK14-T32C-AT-F-1R8L-S	8042570 ★	VUVG-BK14-T32C-AT-F-1H2L-S	350 l/min
5/2-way with solenoid coil single solenoid 24V DC						
M5/M7	10	8042559 ★	VUVG-BK10-M52-AT-F-1R8L-S	8042555 ★	VUVG-BK10-M52-AT-F-1H2L-S	160 l/min
G1/8	14	8042575 ★	VUVG-BK14-M52-AT-F-1R8L-S	8042571 ★	VUVG-BK14-M52-AT-F-1H2L-S	380 l/min
5/2-way with solenoid coil double solenoid 24V DC						
M5/M7	10	8042560 ★	VUVG-BK10-B52-T-F-1R8L-S	8042556 ★	VUVG-BK10-B52-T-F-1H2L-S	160 l/min
G1/8	14	8042576 ★	VUVG-BK14-B52-T-F-1R8L-S	8042572 ★	VUVG-BK14-B52-T-F-1H2L-S	380 l/min

Electrical connections

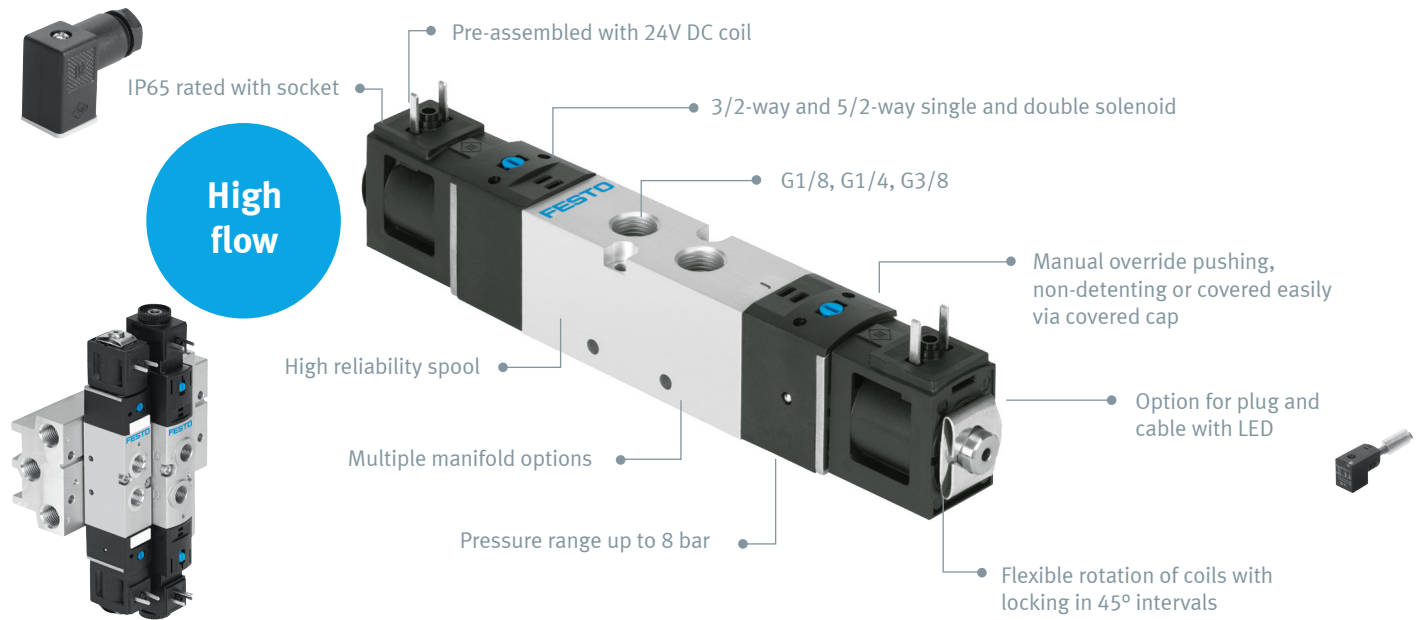
H2	Plug socket with cable, 2.5 m length	566656 ★	NEBV-H1G2-KN-2.5-N-LE2
R8	M8 cable, 3-pin open end, 2.5 m length	541338 ★	NEBU-M8W3-K-2.5-LE3

Accessories:

Manifold options including pre-assembled with valves via 572230 VTUG-S



High flow valves - VUVS-LK [24V DC]



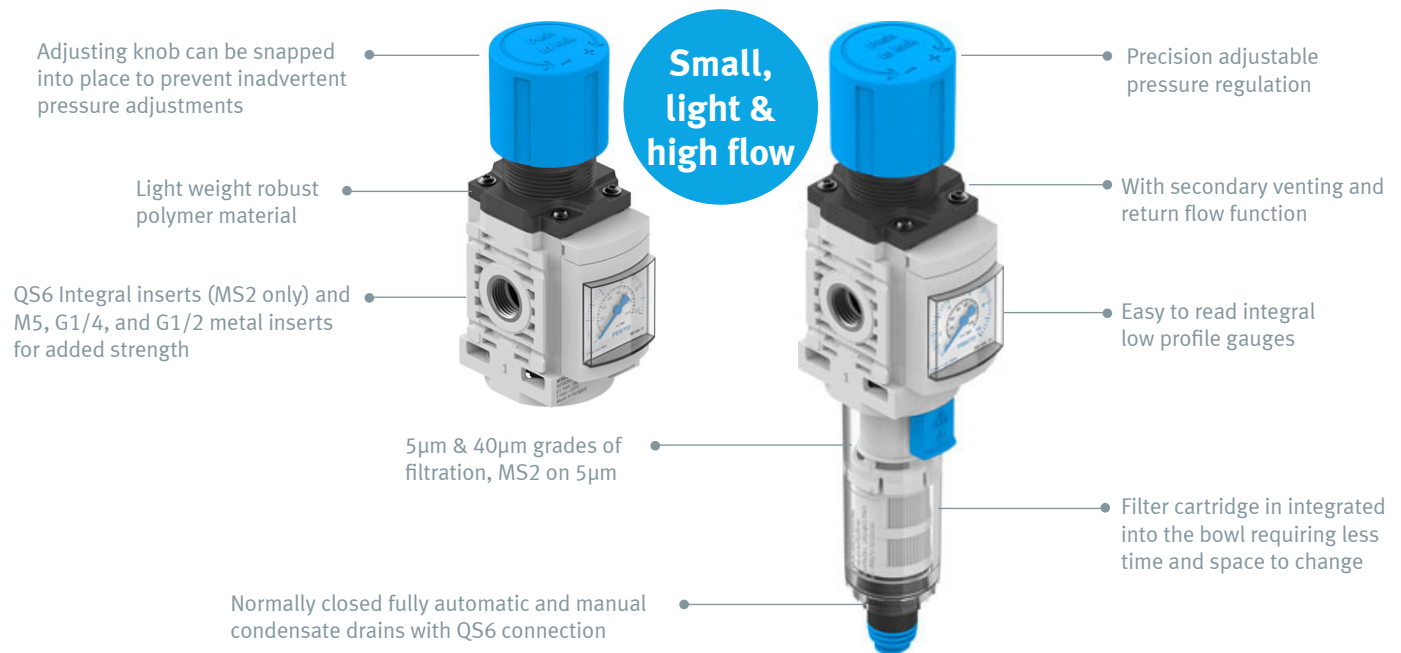
In-line valves - LK

Connection size	G1/8	G1/4	G3/8
Valve width [mm]	20	25	30
Flow rate l/min	550	1,000	1,600
Temperature range [°C]	-5 ... +50		
Operating voltage	24V DC		
3/2-way valve	8043213 ★ VUVS-LK20-M32C-AD-G18-1C1-S	8043217 ★ VUVS-LK25-M52-AD-G14-1B2-S	8049880 ★ VUVS-LK30-M32C-AD-G38-1B2-S
5/2-way valve single solenoid	8043214 ★ VUVS-LK20-M52-AD-G18-1C1-S	8043218 ★ VUVS-LK25-M52-AD-G14-1B2-S	8049881 ★ VUVS-LK30-M52-AD-G38-1B2-S
5/2-way valve double solenoid	8043215 ★ VUVS-LK20-B52-D-G18-1C1-S	8043219 ★ VUVS-LK25-B52-D-G14-1B2-S	8049882 ★ VUVS-LK30-B52-D-G38-1B2-S
Plug socket	151687 ★ MSSD-EB	34431 ★ MSSD-F	34431 ★ MSSD-F
Plug socket with cable 2.5m length	151688 ★ KMEB-1-24-2,5-LED	30935 ★ KMF-1-24DC-2,5-LED	30935 ★ KMF-1-24DC-2,5-LED
Plug socket with cable 5m length	151689 ★ KMEB-1-24-5-LED	30937 ★ KMF-1-24DC-5-LED	30937 ★ KMF-1-24DC-5-LED

Manifold - Compact manifold block VABM with gaskets and screws included			
3/2 - 2 position	576465 ★	8026297 ★	8026413 ★
3/2 - 4 position	576467 ★	8026299 ★	8026415 ★
3/2 - 6 position	576469 ★	8026301 ★	8026417 ★
3/2 - 8 position	576471 ★	8026303 ★	8026419 ★
3/2 - 10 position	576473 ★	8026305 ★	8026421 ★
5/2 - 2 position	576417 ★	8026261 ★	8026377 ★
5/2 - 4 position	576419 ★	8026263 ★	8026379 ★
5/2 - 6 position	576421 ★	8026265 ★	8026381 ★
5/2 - 8 position	576423 ★	8026267 ★	8026383 ★
5/2 - 10 position	576425 ★	8026269 ★	8026385 ★
Screw set	8069876 ★	8068789 ★	8068790 ★



Air preparation - MS-B Series



Regulators							
	Pneumatic connection	Pressure gauge	Pressure gauge scale	Weight [g]	Flow rate [l/m]	Part number	Description
	LR regulator, regulating range 0.5 ... 7 bar						
	M5	Included	bar/psi	39.8	170	8086628 ★	MS2-LR-M5-D6-AR-BAR-B
		None	-	34.8		8086637 ★	MS2-LR-M5-D6-A8-B
	QS-6	Included	bar/psi	36.6	350	8086638 ★	MS2-LR-QS6-D6-AR-BAR-B
		None	-	31.6		8086640 ★	MS2-LR-QS6-D6-A8-B
	LR regulator, regulating range 0.3 ... 7 bar						
	G1/4	Included	bar/psi	165	1800	8099358 ★	MS4-LR-1/4-D6-AG-BAR-B
		None	-	163		8099360 ★	MS4-LR-1/4-D6-A8-B
	LR regulator, regulating range 0.3 ... 7 bar						
	G1/2	Included	bar/psi	482	6000	8099205 ★	MS6-LR-1/2-D6-AG-BAR-B
		None	-	479		8099203 ★	MS6-LR-1/2-D6-A8-B



Filter Regulators									
	Pneumatic connection	Pressure gauge	Grade of filtration [µm]	Condensate draining	Pressure gauge scale	Weight [g]	Flow rate [l/m]	Part number	Description
	LFR regulator, regulating range 0.5 ... 7 bar								
	M5	Included	5	Manual	bar/psi	39.8	140	8086641 	MS2-LFR-M5-D6-AR-BAR-C-M-B
		None	5	Manual	-	34.8		8086643 	MS2-LFR-M5-D6-A8-C-M-B
	QS-6	Included	5	Manual	bar/psi	39.8	310	8086644 	MS2-LFR-QS6-D6-AR-BAR-C-M-B
		None	5	Manual	-	34.8		8086646 	MS2-LFR-QS6-D6-A8-C-M-B
	LFR regulator, regulating range 0.3 ... 7 bar								
	G1/4	Included	5	Manual	bar/psi	207	1500	8098257 	MS4-LFR-1/4-D6-C-P-M-AG-BAR-B
		None	5	Manual	-	204		8098260 	MS4-LFR-1/4-D6-C-P-M-A8-B
		Included	5	Automatic	bar/psi	215		8098259 	MS4-LFR-1/4-D6-C-P-VC-AG-BAR-B
		None	5	Automatic	-	212		8098263 	MS4-LFR-1/4-D6-C-P-VC-A8-B
		Included	40	Manual	bar/psi	207	1700	8098258 	MS4-LFR-1/4-D6-E-P-M-AG-BAR-B
		None	40	Manual	-	204		8098255 	MS4-LFR-1/4-D6-E-P-M-A8-B
		Included	40	Automatic	bar/psi	215		8098264 	MS4-LFR-1/4-D6-E-P-VC-AG-BAR-B
		None	40	Automatic	-	212		8098262 	MS4-LFR-1/4-D6-E-P-VC-A8-B
	LFR regulator, regulating range 0.3 ... 7 bar								
	G1/2	Included	5	Manual	bar/psi	581	4750	8098300 	MS6-LFR-1/2-D6-C-P-M-AG-BAR-B
		None	5	Manual	-	578		8098301 	MS6-LFR-1/2-D6-C-P-M-A8-B
		Included	5	Automatic	bar/psi	589		8098309 	MS6-LFR-1/2-D6-C-P-VC-AG-BAR-B
		None	5	Automatic	-	586		8098303 	MS6-LFR-1/2-D6-C-P-VC-A8-B
		Included	40	Manual	bar/psi	581	5300	8098304 	MS6-LFR-1/2-D6-E-P-M-AG-BAR-B
		None	40	Manual	-	578		8098311 	MS6-LFR-1/2-D6-E-P-M-A8-B
		Included	40	Automatic	bar/psi	589		8098312 	MS6-LFR-1/2-D6-E-P-VC-AG-BAR-B
None		40	Automatic	-	586	8098306 		MS6-LFR-1/2-D6-E-P-VC-A8-B	

Accessories	MS2		MS4		MS6	
Type	Part no	Description	Part no	Description	Part no	Description
Wall bracket	8087978 ★	MS2-WR-B	8149680 ★	MS4-WR-B	8149681 ★	MS6-WR
Panel nut	8098037 ★	MS2-WRS	532187 ★	MS4-WRS	532188 ★	MS6-WRS

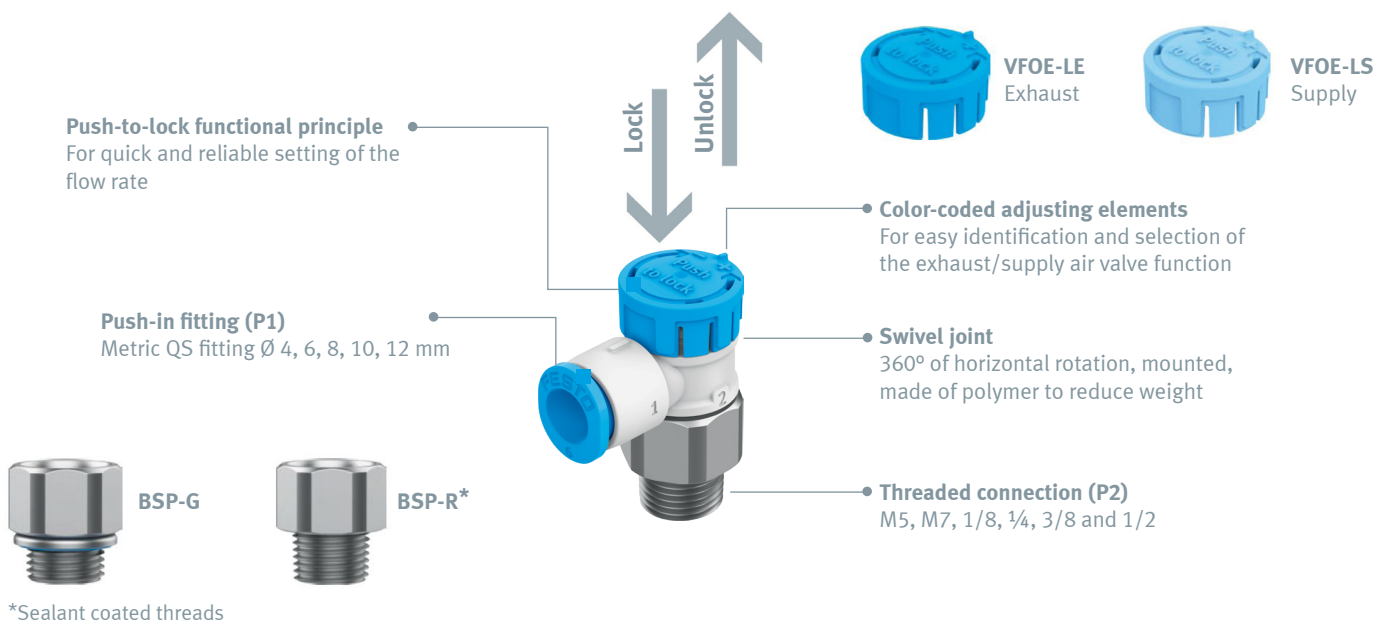


Filter Regulators										
	Pneumatic connec- tion	Pressure gauge	Grade of filtration [µm]	Condensate draining	Pressure gauge scale	Weight [g]	Flow rate [l/m]	Part number	Description	
	EM1FR regulator, regulating range 0.3 ... 7 bar									
	G1/4	Included	5	Manual	bar/psi	207	1500	8098373 	MS4-EM1FR-1/4-D6-C-P-M-AG-BAR-WPE-B	
		None	5	Manual	-	204		8130347 	MS4-EM1FR-1/4-D6-C-P-M-A8-WPE-B	
		Included	5	Automatic	bar/psi	215		8098372 	MS4-EM1FR-1/4-D6-C-P-VC-AG-BAR-WPE-B	
		None	5	Automatic	-	212		8130949 	MS4-EM1FR-1/4-D6-C-P-VC-A8-WPE-B	
		Included	40	Manual	bar/psi	207	1700	8098376 	MS4-EM1FR-1/4-D6-E-P-M-AG-BAR-WPE-B	
		None	40	Manual	-	204		8130950 	MS4-EM1FR-1/4-D6-E-P-M-A8-WPE-B	
		Included	40	Automatic	bar/psi	215		8098379 	MS4-EM1FR-1/4-D6-E-P-VC-AG-BAR-WPE-B	
		None	40	Automatic	-	212		8130948 	MS4-EM1FR-1/4-D6-E-P-VC-A8-WPE-B	
	EM1FR regulator, regulating range 0.3 ... 7 bar									
	G1/2	Included	5	Manual	bar/psi	581	4750	8098363 	MS6-EM1FR-1/2-D6-C-P-M-AG-BAR-WPE-B	
		None	5	Manual	-	578		8130912 	MS6-EM1FR-1/2-D6-C-P-M-A8-WPE-B	
		Included	5	Automatic	bar/psi	589		8098370 	MS6-EM1FR-1/2-D6-C-P-VC-AG-BAR-WPE-B	
		None	5	Automatic	-	586		8130911 	MS6-EM1FR-1/2-D6-C-P-VC-A8-WPE-B	
		Included	40	Manual	bar/psi	581	5300	8098365 	MS6-EM1FR-1/2-D6-E-P-M-AG-BAR-WPE-B	
		None	40	Manual	-	578		8130913 	MS6-EM1FR-1/2-D6-E-P-M-A8-WPE-B	
		Included	40	Automatic	bar/psi	589		8098367 	MS6-EM1FR-1/2-D6-E-P-VC-AG-BAR-WPE-B	
		None	40	Automatic	-	586		8130914 	MS6-EM1FR-1/2-D6-E-P-VC-A8-WPE-B	

Electric on/off valves										
	Pneumatic connection	Soft start functionality	Operating Pressure bar	Pilot Air Supply	Operating voltage	Electrical Connection	Weight [g]	Flow rate [l/m]	Part number	Description
	EE & EDE Electrically actuated, single solenoid, 3/2-way, normally closed									
	G1/4	--	3...7	Internal	24V DC	Form C per EN 175301-803	194	2000	8091771 ★	MS4-EE-1/4-V24-B
		Integrated							8080815 ★	MS4-EDE-1/4-V24-B
	G1/2	--	3...7	Internal	24V DC	Form C per EN 175301-803	517	5000	8091578 ★	MS6-EE-1/2-V24-B
		Integrated							8080855 ★	MS6-EDE-1/2-V24-B



One-way flow control valve - VFOE

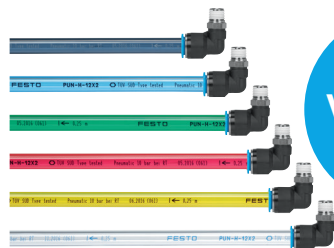


VFOE-LE						
	P2 \ P1	QS-4	QS-6	QS-8	QS-10	QS-12
Exhaust air 	M5	8068723 ★	8068724 ★			
	G1/8	8068725 ★	8068726 ★	8068727 ★		
	G1/4		8068728 ★	8068729 ★	8068730 ★	
	G3/8			8068731 ★	8068732 ★	
	G1/2					8068733 ★
	R1/8	8068734 ★	8068735 ★	8068736 ★		
	R1/4		8068737 ★	8068738 ★	8068739 ★	
	R3/8			8068740 ★	8068741 ★	
	R1/2					8068742 ★

VFOE-LS				
	P2 \ P1	QS-4	QS-6	QS-8
Supply air 	M5	8068743 ★	8068744 ★	
	M7	8068745 ★	8068746 ★	
	G1/8	8068747 ★	8068748 ★	8068749 ★
	R1/8	8068750 ★	8068751 ★	8068752 ★



Polyurethane tubing - PUN-H



Versatile!

- Diameters 2mm...16mm OD & 1/8...5/8 inch OD
- Highly flexible tubing
- Resistant to hydrolysis and microbes
- UV-resistant
- Food-safe
- FDA-listed material
- Kink-resistant
- Solid and translucent colors
- DUO tube available in Blue & Black

PUN-H - Solid Colors								
OD	Packed length	Packaging Material	Blue	Black	Silver	Red	Green	Yellow
2mm	50m	Box		133039		133040		
3mm	50m	Box	197382	197389	558277	558284	558291	558298
	500m	Spool	558256	558249	558270			
4mm	50m	Box	197383 ★	197390 ★	558278 ★	558285	558292	558299
	500m	Spool	558257 ★	558250 ★	558271 ★			
6mm	50m	Box	197384 ★	197391 ★	558279 ★	558286	558293	558300
	500m	Spool	558258 ★	558251 ★	558272 ★			
8mm	50m	Box	197385 ★	197392 ★	558280 ★	558287	558294	558301
	400m	Spool	558259 ★	558252 ★	558273 ★			
10mm	50m	Box	197386 ★	197393 ★	558281 ★	558288	558295	558302
	300m	Spool	558260 ★	558253 ★	558274 ★			
12mm	50m	Box	197387 ★	197394 ★	558282 ★	558289	558296	558303
	200m	Spool	558261 ★	558254 ★	558275 ★			
14mm	50m	Box	570386	570387				
16mm	50m	Box	197388	197395	558283	558290	558297	558304
	100m	Spool	558262	558255	558276			
1/8 in	150ft	Box	567945 ★	567953 ★	567937 ★		567977	
5/32 in	150ft	Box	567946 ★	567954*★				
3/16 in	150ft	Box	567947	567955			567979	567971
1/4 in	150ft	Box	567948*★	567956*★	567940*★	567988	567980	567972
5/16 in	150ft	Box	567949 ★	567957 ★				
3/8 in	150ft	Box	567950*★	567958*★	567942 ★	567990	567982	567974
1/2 in	150ft	Box	567951 ★	567959 ★	567943 ★	567991	567983	567975
5/8 in	150ft	Box	567952	568008		567992	567984	567976

*Also available in bulk quantities on reels.

NOTE: Additional materials, sizes and colors are also available. Please contact Festo.



Polyurethane tubing - PUN-H

Packaging modes:



Spool



Box

PUN-H - Translucent Colors								
OD	Packed length	Packaging Material	Natural (Clear)	Translucent blue	Translucent black	Translucent red	Translucent green	Translucent yellow
2mm	50m	Box	133038					
3mm	50m	Box	197375					
	500m	Spool	558263					
4mm	50m	Box	197376 ★	8048671 ★	8048673 ★	8048675	8048677	8048679
	500m	Spool	558264 ★	8048672 ★	8048674 ★			
6mm	50m	Box	197377 ★	8048681 ★	8048683 ★	8048685	8048687	8048689
	500m	Spool	558265 ★	8048682 ★	8048684 ★			
8mm	50m	Box	197378 ★	8048691 ★	8048693 ★	8048695	8048697	8048699
	400m	Spool	558266 ★	8048692 ★	8048694 ★			
10mm	50m	Box	197379 ★	8048701 ★	8048703 ★	8048705	8048707	8048709
	300m	Spool	558267 ★	8048702 ★	8048704 ★			
12mm	50m	Box	197380 ★	8048711 ★	8048713 ★	8048715	8048717	8048719
	200m	Spool	558268 ★	8048712 ★	8048714 ★			
14mm	50m	Box	570388					
16mm	50m	Box	197381					
	100m	Spool	558269					
1/8 in	150ft	Box	567961 ★					
5/32 in	150ft	Box						
3/16 in	150ft	Box	567963					
1/4 in	150ft	Box	567964*★					
5/16 in	150ft	Box	567965*★					
3/8 in	150ft	Box	567966*★					
1/2 in	150ft	Box	567967 ★					
5/8 in	150ft	Box						

*Also available in bulk quantities on reels.

NOTE: Additional materials, sizes and colors are also available. Please contact Festo.



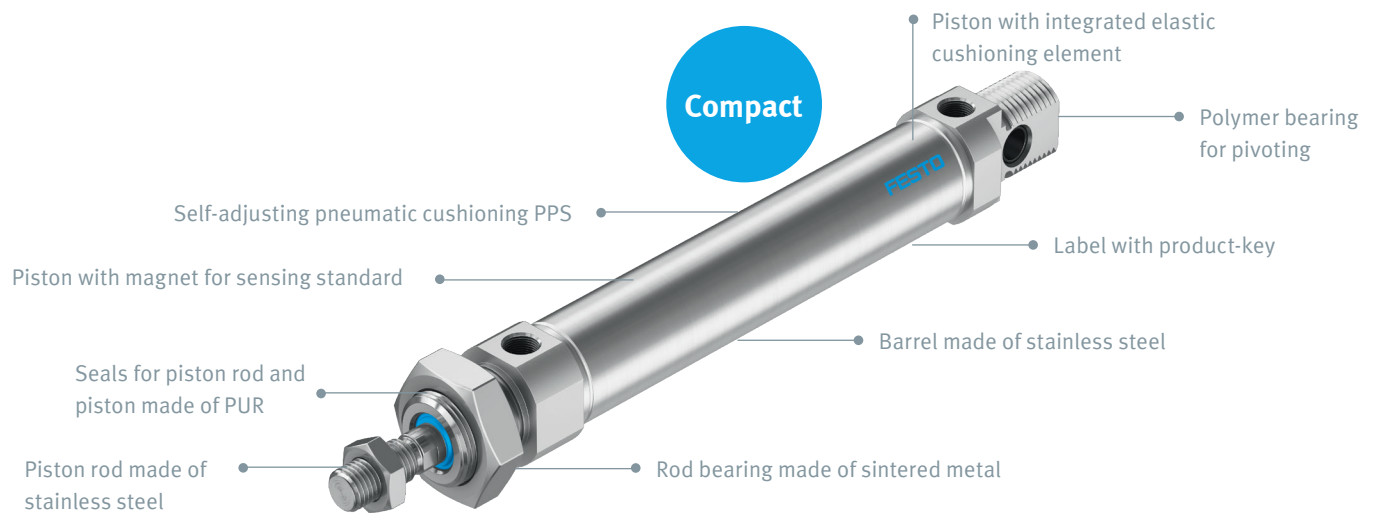
Round cylinder - DSNU-S



Piston dia. [mm]	8	12	16	20	25	16	20	25
	Cushioning - P Position sensing - A					Cushioning - PPS Position sensing - A		
Stroke [mm]								
10	5205897 	5211896 	5216087 	5224633 	5228227 			
15	5205898 	5211897 	5216088 	5224634 	5228228 			
20	5205899 	5211898 	5216089 	5224635 	5228229 			
25	5205900 	5211899 	5216090 	5224637 	5228230 	5217238 	5225836 	5228452 
30	5205902 	5211900 	5216091 	5224639 	5228231 	5217239 	5225837 	5228453 
40	5205903 	5211901 	5216093 	5224641 	5228232 	5217240 	5225838 	5228454 
50	5205904 	5211903 	5216094 	5224642 	5228233 	5217241 	5225839 	5228455 
60	5205905 	5211904 	5216095 	5224643 	5228234 	5217242 	5225840 	5228456 
80	5205906 	5211905 	5216096 	5224644 	5228235 	5217243 	5225841 	5228457 
100	5205907 	5211906 	5216098 	5224645 	5228236 	5217244 	5225842 	5228458 
125		5211908 	5216099 	5224645 	5228237 	5217245 	5225843 	5228459 
150		5211909 	5216100 	5224646 	5228238 	5217246 	5225844 	5228460 
200			5216101 	5224647 	5228239 	5217248 	5225846 	5228461 



Round cylinder - DSNU-ISO type



003 Stroke [mm]	002 Piston Ø [mm]					002 Piston Ø [mm]							
	12	16	20	25	32	16	20	25	32	16	20	25	32
	Cushioning - Position sensing					Cushioning - Position sensing				Cushioning - Position sensing			
	P - A					PPV - A				PPS - A			
10	19189	19198	19207	19218	5249365	1908266	1908289	1908312		1908274	1908297	1908320	
15	1908255	1908259	1908282	1908305	5249366	1908267	1908290	1908313		1908275	1908298	1908321	
20	1908256	1908260	1908283	1908306	5249367	1908268	1908291	1908314		1908276	1908299	1908322	
25	19190	19199	19208	19219	195980	33973	33974	33975	196020	559263	559271	559282	559295
30	1908257	1908261	1908284	1908307	5249368	1908269	1908292	1908315	5249851	1908277	1908300	1908323	5249968
35		1908262	1908285	1908308		1908270	1908293	1908316		1908278	1908301	1908324	
40	19191	19200	19209	19220	195981	19229	19236	19245	196021	559264	559272	559283	559296
50	19192	19201	19210	19221	195982	19230	19237	19246	196022	559265	559273	559284	559297
60	1908258	1908263	1908286	1908309	5249369	1908271	1908294	1908317	5249853	1908279	1908302	1908325	5249970
70		1908264	1908287	1908310	5249370	1908272	1908295	1908318	5249854	1908280	1908303	1908326	5249971
80	19193	19202	19211	19222	195983	19231	19238	19247	196023	559266	559274	559285	559298
100	19194	19203	19212	19223	195984	19232	19239	19248	196024	559267	559275	559286	559299
125	19195	19204	19213	19224	195985	19233	19240	19249	196025	559268	559276	559287	559300
150		1908265	1908288	1908311	5249371	1908273	1908296	1908319	5249855	1908281	1908304	1908327	5249972
160	19196	19205	19214	19225	195986	19234	19241	19250	196026	559269	559277	559288	559301
200	19197	19206	19215	19226	195987	19235	19242	19251	196027	559270	559278	559289	559302
250			19216	19227	195988		19243	19252	196028		559279	559290	559303
300			19217	19228	5249372		19244	19253	5249856		559280	559291	5249973
320			34718	34719	195989		34720	34721	196029		559281	559292	559304

NOTE: Additional sizes are also available. Please contact Festo.



Interchangeable inch round air cylinder - DPRA



Piston diameter [in]	9/16	3/4	7/8	1 1/16	1 1/4	1 1/2	1 3/4	2	2 1/2	3	Code
Part No.	8180567 ★	8109549 ★	8180568 ★	8109550 ★	8109551 ★	8109552 ★	8109553 ★	8109554 ★	8109555 ★	8180569 ★	
Function	Round cylinder										DPRA
Stroke	0.0625 ... 12"										~..."
Function	Single-acting or double-acting										
Piston rod type	At one end										
	Through piston rod						-	Through piston rod	-		T
Compressed air supply port	Lateral										
	Axial										P4
Cushioning	No cushioning										-N
	Flexible cushioning rings/pads at both ends										-P
	Pneumatic cushioning, adjustable at both ends										-PPV
Position sensing	Without										
	For proximity switch										A
Corrosion protection	Standard	R1, R3	Standard	R1, R3	R1	R3	Standard	R1	Standard		
Temperature range	Standard										
	+40 ... +225 °F										T3
	+32 ... +300 °F										T4
Piston rod extension	Without										
	0 ... 6 inch										~...NE
Piston rod thread extension		Without									
		0 ... 6 inch									~...NL

Choice of mounting styles:

- Mounting thread
- Rear swivel
- Trunnion flange
- Block mount

R1 - Stainless steel end caps

R3 - Delrin end caps



Solid aluminum inch compact cylinder - DPCA



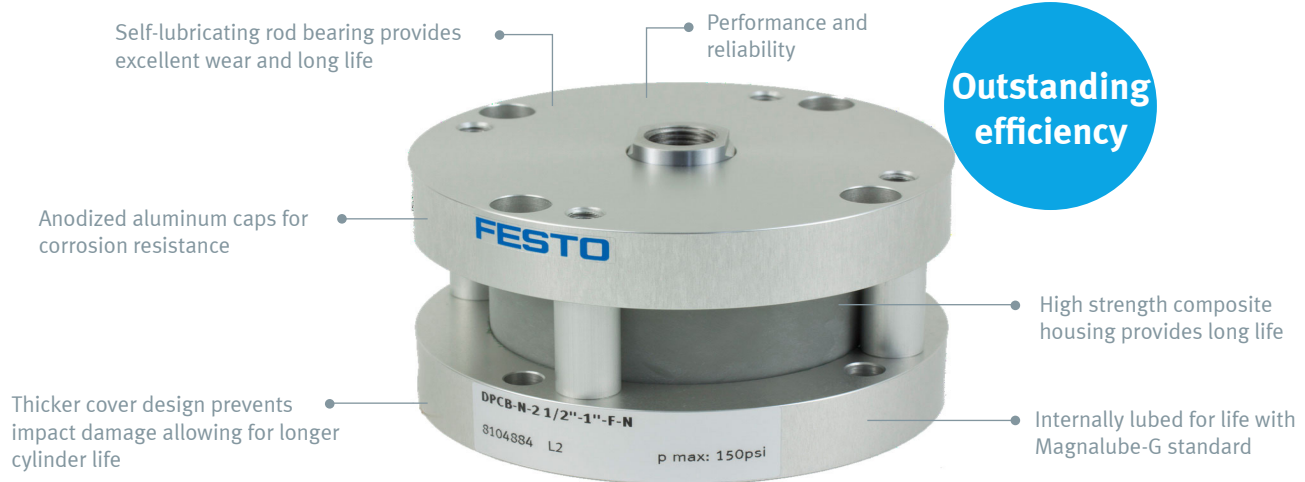
Piston diameter [in]	1/2	3/4	1 1/8	1 5/8	2	2 1/2	3	4	Code
Part No.	8104871	8104872	8104873	8104874	8104875	8104876	8104877	8104878	
Function	Compact cylinder								DPCA
System of units	Metric								
	Inch								-N
Anti-twist protection	Without								
	-	With anti-twist protection							-Q
Running characteristics	Standard								
	Additional PTFE piston guide								L4
Stroke	Up to 4"								
Stroke adjustment	Without								
	-	-	Advancing/front						
Piston rod type	At one end								
	Through, hollow piston rod								H
	Through piston rod								T
Piston rod thread type	External thread								
	Internal thread								F
Position sensing	Without								
	For proximity switch								A
Scraper variant	None								
	Increased chemical resistance								-A1

Additional options:

- Mounting (swivel clevis, rod eye)
- Cushioning (bumpers)



Interchangeable inch compact cylinder - DPCB



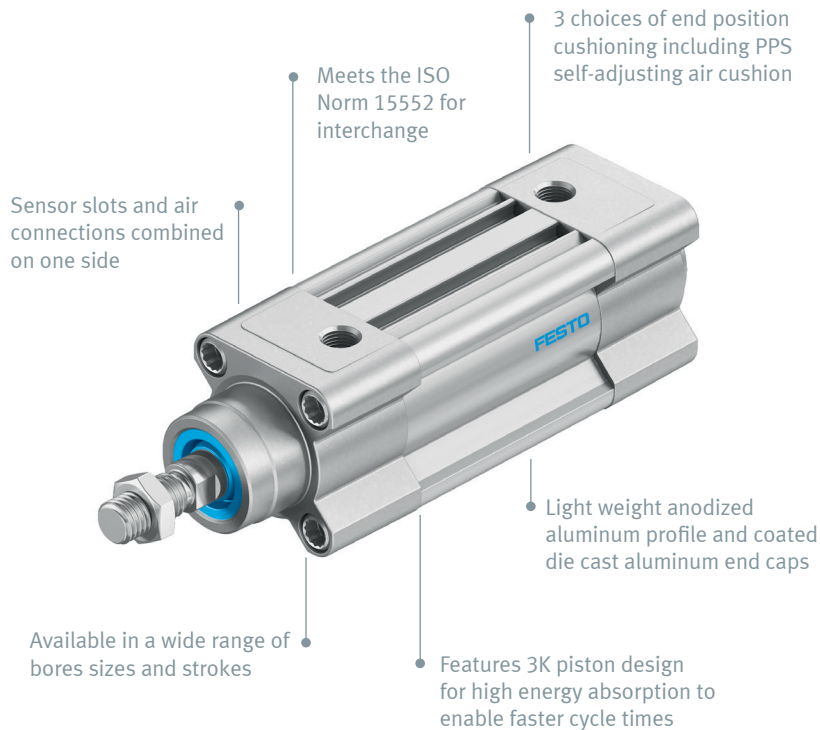
Piston diameter [in]	1/2	3/4	1 1/16	1 1/2	2	2 1/2	3	4	Code
Part No.	8104879 ★	8104880 ★	8104881 ★	8104882 ★	8104883 ★	8104884 ★	8104885 ★	8104886 ★	
Function	Compact cylinder								DPCB
Anti-twist protection	Without								
	-	With double piston rod				-	-	-	-QP
Running characteristics	Standard								
	Low friction								L
Stroke	Up to 4”								
Piston rod type	At one end								
	Through, hollow piston rod								H
	Through piston rod								T
Piston rod design	One end plate								
	One end plate with recess and through-hole								J1
	One end plate, rotated 90°								J90
	One end plate with recess and through-hole, rotated 90°								J91
Piston rod thread type	External thread								
	Internal thread								F
	No thread								N
Position sensing	Without								
	For proximity switch								A
Temperature range									
	40... +176°F								-T3
Scraper variant	None								
	Increased chemical resistance								-A1
	Scraper made of NBR								-A4

Additional options:

- Mounting (threads, through holes, swivel, trunnion)
- Cushioning (bumpers)



Standards-based cylinders - DSBC, to ISO 15552



001	004	005	008	009	010
DSBC				A	N3

001	Type
DSBC	Standards-based cylinder, double-acting, based on ISO 15552

004	Piston Ø [mm]
---	32, 40, 50, 63, 80

005	Stroke [mm]
---	20, 25, 30, 40, 50, 60, 70, 80, 100, 125, 150, 160, 200, 250, 300, 320, 400, 500

008	Cushioning
PPV	Pneumatic cushioning, adjustable at both ends
PPS	Pneumatic cushioning, self-adjusting at both ends

009	Position sensing
A	Via proximity switch

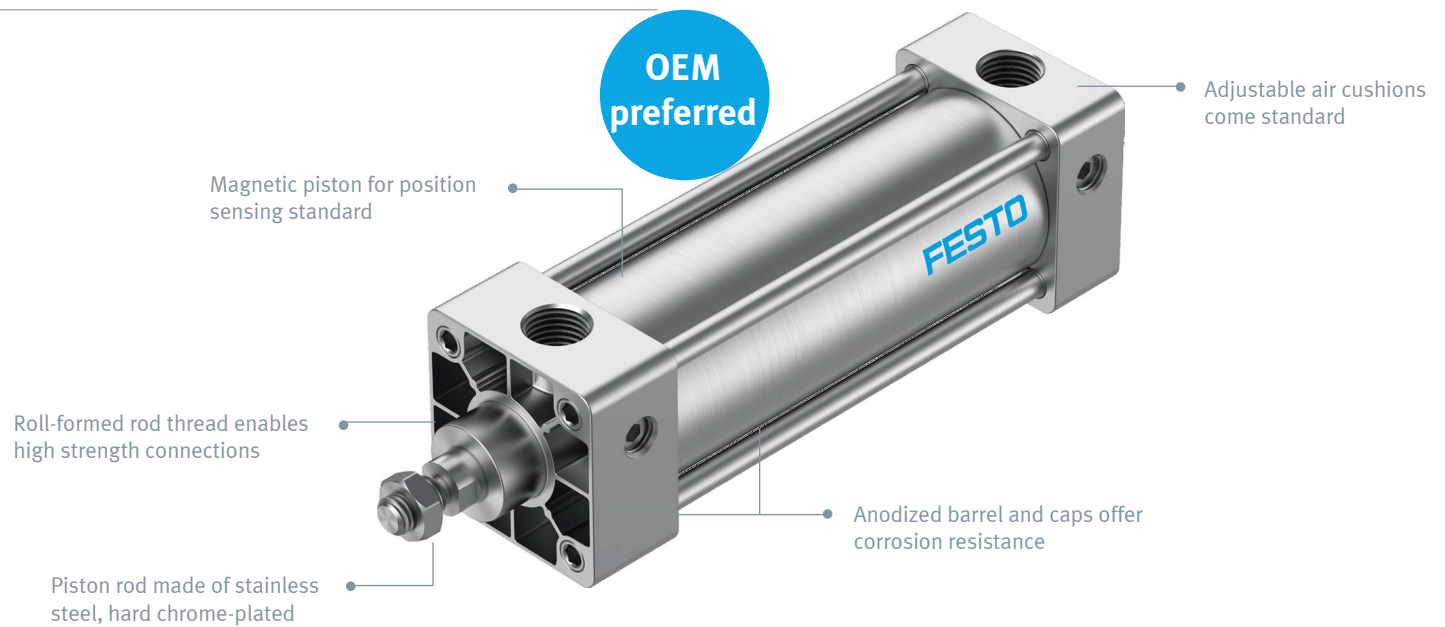
010	Standard
N3	Conforms to ISO 15552

Ordering – Basic design

005 Stroke [mm]	004 Piston Ø [mm]					004 Piston Ø [mm]				
	32	40	50	63	80	32	40	50	63	80
	008 Cushioning – 009 Position sensing – 010 Conforms to ISO 15552									
	PPV					PPS				
20	2123069 ★	2123166 ★	2098969 ★	2125490 ★	2126594 ★	2123085 ★	2123780 ★	2102628 ★	2126684 ★	2126636 ★
25	1376422 ★	1376656 ★	1366948 ★	1383578 ★	1383333 ★	1376467 ★	1376903 ★	1376301 ★	1383632 ★	1383366 ★
30	2123070 ★	2123167 ★	2098970 ★	2125491 ★	2126595 ★	2123086 ★	2123781 ★	2102629 ★	2126685 ★	2126637 ★
40	1376423 ★	1376657 ★	1366949 ★	1383579 ★	1383334 ★	1376468 ★	1376904 ★	1376304 ★	1383633 ★	1383367 ★
50	1376424 ★	1376658 ★	1366950 ★	1383580 ★	1383335 ★	1376469 ★	1376905 ★	1376305 ★	1383634 ★	1383368 ★
60	2123071 ★	2123224 ★	2098972 ★	2125492 ★	2126597 ★	2123087 ★	2123782 ★	2102630 ★	2126686 ★	2126638 ★
70	2123072 ★	2123225 ★	2098973 ★	2125493 ★	2126598 ★	2123088 ★	2123783 ★	2102631 ★	2126687 ★	2126639 ★
80	1376425 ★	1376659 ★	1366951 ★	1383581 ★	1383336 ★	1376470 ★	1376906 ★	1376306 ★	1383635 ★	1383369 ★
100	1376426 ★	1376660 ★	1366952 ★	1383582 ★	1383337 ★	1376471 ★	1376907 ★	1376307 ★	1383636 ★	1383370 ★
125	1376427 ★	1376661 ★	1366953 ★	1383583 ★	1383338 ★	1376472 ★	1376908 ★	1376308 ★	1383637 ★	1383371 ★
150	2123073 ★	2123226 ★	2098974 ★	2125494 ★	2126599 ★	2123089 ★	2123784 ★	2102632 ★	2126688 ★	2126640 ★
160	1376428 ★	1376662 ★	1366954 ★	1383584 ★	1383339 ★	1376473 ★	1376909 ★	1376309 ★	1383638 ★	1383372 ★
200	1376429 ★	1376663 ★	1366955 ★	1383585 ★	1383340 ★	1376474 ★	1376910 ★	1376310 ★	1383639 ★	1383373 ★
250	1376430 ★	1376664 ★	1366956 ★	1383586 ★	1383341 ★	1376475 ★	1376911 ★	1376311 ★	1383640 ★	1383374 ★
300	2123074 ★	2123227 ★	2098975 ★	2125495 ★	2126600 ★	2123090 ★	2123785 ★	2102633 ★	2126689 ★	2126641 ★
320	1376431 ★	1376665 ★	1366957 ★	1383587 ★	1383342 ★	1376476 ★	1376912 ★	1376312 ★	1383641 ★	1383375 ★
400	1376432 ★	1376666 ★	1366958 ★	1383588 ★	1383343 ★	1376477 ★	1376913 ★	1376313 ★	1383642 ★	1383376 ★
500	1376433 ★	1376667 ★	1366959 ★	1383589 ★	1383344 ★	1376478 ★	1376914 ★	1376314 ★	1383643 ★	1383377 ★



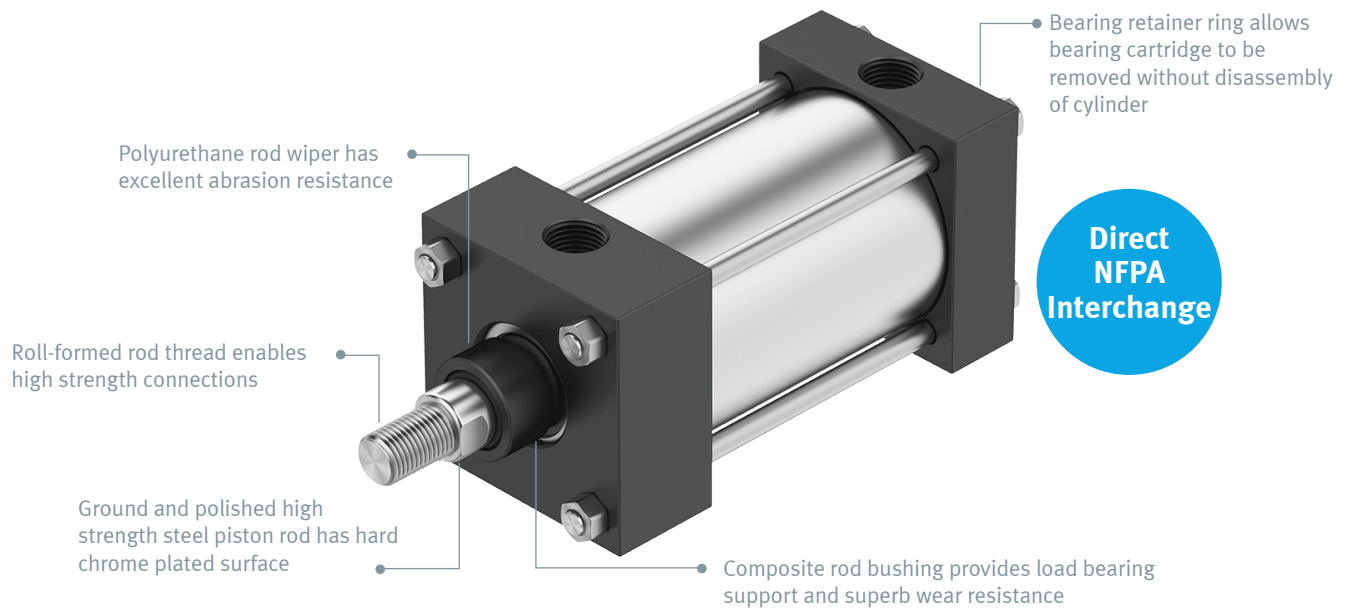
NFPA interchange cylinder - DSNA



Piston diameter [in]	1 1/2	2	2 1/2	3 1/4	4	Code
Part No.	8117043 ★	8117044 ★	8117045 ★	8117046 ★	8117047 ★	
Function	Standards-based cylinder, double-acting					DSNA
System of units	Imperial					-N
Stroke	0.25 ... 48"					-..."
Piston rod type	At one end					
	Through piston rod					-T
Cushioning	Pneumatic cushioning, adjustable at both ends					-PPV
Position sensing	For proximity switch					A
Standard	Conforms to ANSI/NFPA					-N5
Type of mounting	Flange plate, bearing cap					-MF1
	Flange plate, end cap					-MF2
	Swivel bearing					-MP1
	Swivel mounting					-MP2
	Foot mounting					-MS1
	Direct mounting					-MS4
Seal material	Detachable eye mount					-MP4
	Mid trunnion					-MT4
	Extended tie rods, rear					-MX2
	Extended tie rods, front					-MX3
	Standard					
	Viton					-T2



NFPA interchange cylinder - DSNB



Piston diameter [in]	1 1/2	2	2 1/2	3 1/4	4	5	6	Code
Part No.	8161111 ★	8161112 ★	8161113 ★	8161114 ★	8161115 ★	8161116 ★	8161117 ★	
Function	Standards-based cylinder, double-acting							DSNB
System of units	Imperial							-N
Stroke	0 ... 98"							-..."
Piston rod diameter	Standard							
	Oversized							-R
Piston rod type	At one end							
	Through piston rod							-T
Piston rod thread type	Male thread							
	Female thread							-F
	Bolt with male thread							-X
Piston rod thread	Standard							
	1/2-20 UNF							-U12
	7/8-14 UNF							-U78
	1 1/4-12 UNF							-U114
	1 1/2-12 UNF							-U112
Cushioning	No cushioning							-N
	Noise reduction							-SL
	Elastic cushioning rings/plates on both sides							-P
	Pneumatic cushioning at both ends, non-adjustable							-PP
	Pneumatic cushioning at the front, non-adjustable							-PP2
	Pneumatic cushioning at the rear, non-adjustable							-PP3
	Pneumatic cushioning, adjustable at both ends							-PPV
	Pneumatic cushioning at the front, adjustable							-PPV1
	Pneumatic cushioning at the rear, adjustable							-PPV2

Additional options:

- Type of mounting – choice of 16 styles (ex: MF1, MS1, MP2)
- Pneumatic connection size
- High temperature
- Metal rod scraper
- Extension of Piston rod, piston rod thread length



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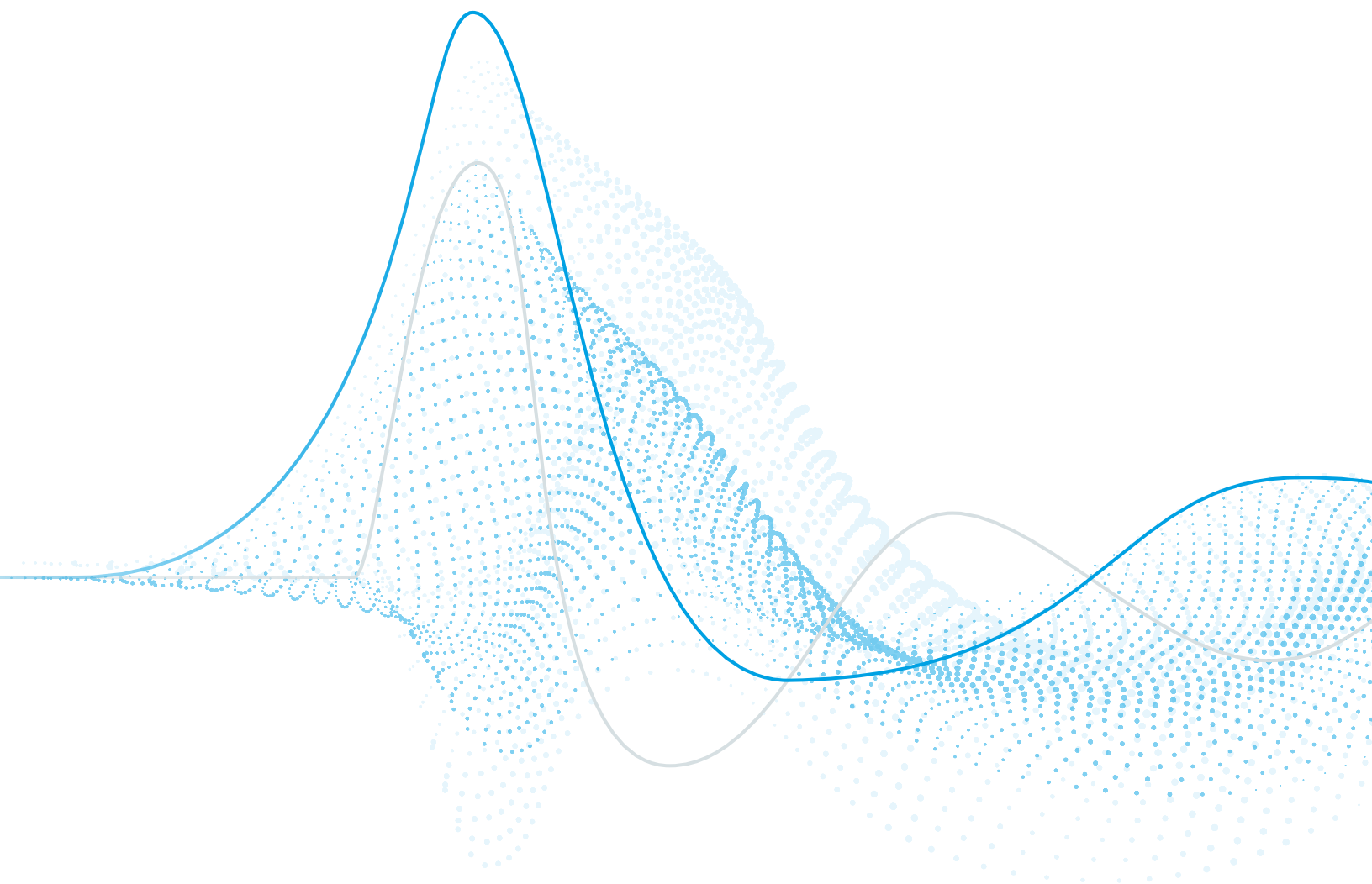
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