



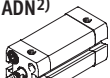
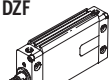
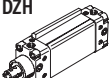

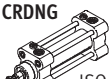

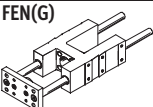


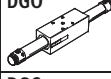
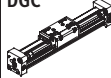
Inch Products Overview Automation Components



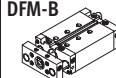
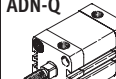
FESTO

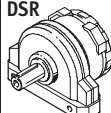


Piston Rod Actuators, Double Acting			
Type	Piston Ø [in] ¹⁾	Port Sizes [UNF/NPT]	Strokes [in] ¹⁾
Cylinders to Industry Standard			
 DNC ISO 15552	1 1/4, 1 5/8, 2, 2 1/2, 3, 4, 5	1/8, 1/4, 3/8, 1/2	1 ... 20
 DSNU ISO 6432	5/16, 3/8, 1/2, 5/8, 3/4, 1	10-32, 1/8	0.04 ... 20
 DNA NFPA	1 1/2, 2, 2 1/2, 3 1/4, 4, 5	3/8, 1/2	0.4 ... 80
Round Cylinders			
 DSNU	1 1/4, 1 5/8, 2, 2 1/2	1/8, 1/4, 3/8	0.125 ... 20
Compact Cylinders			
 ADN ²⁾	1/2, 5/8, 3/4, 1, 1 1/4, 1 5/8, 2, 2 1/2, 3, 4, 5	10-32, 1/8, 1/4	0.04 ... 20
Narrow Profile Cylinders			
 DZF	1/2, 11/16, 1, 1 1/4, 1 5/8, 2, 2 1/2 ³⁾	10-32, 1/8, 1/4	0.04 ... 12
 DZH	5/8, 3/4, 1, 1 1/4, 1 5/8, 2, 2 1/2 ³⁾	10-32, 1/8, 1/4, 3/8	0.04 ... 40
Corrosion-resistant Cylinders to Industry Standard			
 CRDSNU ISO 6432	1/2, 5/8, 3/4, 1	10-32, 1/8	0.4 ... 20
 CRDNG ISO 15552	1 1/4, 1 5/8, 2, 2 1/2, 3, 4, 5	1/8, 1/4, 3/8, 1/2	0.4 ... 80
Corrosion-resistant Round Cylinders			
 CRDSW	1 1/4, 1 5/8, 2, 2 1/2	1/8, 1/4, 3/8	0.4 ... 20

Guide Units			
Type		Piston Ø [in] ¹⁾	Strokes [in] ¹⁾
	FEN for DSNU	5/16, 3/8, 1/2, 5/8, 3/4, 1	0.04 ... 10
	FENG for DNC and DNG	1 1/4, 1 5/8, 2, 2 1/2, 3, 4	0.04 ... 20


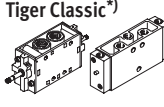
Rodless Actuators, Double Acting			
Type	Piston Ø [in] ¹⁾	Port Sizes [UNF/NPT]	Strokes [in] ¹⁾
 DGO	1/2, 5/8, 3/4, 1, 1 1/4, 1 5/8	10-32, 1/8, 1/4	0.4 ... 145
 DGC	5/16, 1/2, 11/16, 1, 1 1/4, 1 5/8, 2, 2 1/2	10-32, 1/8, 1/4, 3/8	0.04 ... 335

Guided Piston Rod Actuators, Double Acting			
Type	Piston Ø [in] ¹⁾	Port Sizes [UNF/NPT]	Strokes [in] ¹⁾
Slides			
 DGSL	3/8, 1/2, 5/8, 3/4, 1	10-32, 1/8	0.4 ... 8
Actuators with Guides			
 ADNGF	1/2, 5/8, 3/4, 1, 1 1/4, 1 5/8, 2, 2 1/2, 3, 4	10-32, 1/8	0.04 ... 16
 DFM-B	1/2, 5/8, 3/4, 1, 1 1/4, 1 5/8, 2, 2 1/2	10-32, 1/8, 1/4	0.4 ... 16
Square Rod Actuators			
 ADN-Q	1/2, 5/8, 3/4, 1, 1 1/4, 1 5/8, 2, 2 1/2, 3, 4, 5	10-32, 1/8, 1/4	0.04 ... 16

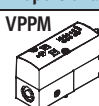
Rotary Actuators			
Type	Piston Ø [in] ¹⁾	Port Sizes [UNF/NPT]	Swivel Angle [°]
 DSR	3/8, 1/2, 5/8, 1, 1 1/4, 1 5/8	M3, 10-32, 1/8, 1/4	0 ... 184

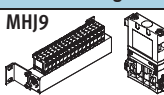
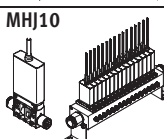
- 1) Approximated values; for reference only.
- 2) The piston rod of the ADN is available with either male or female thread.
- 3) Equivalent Piston Ø

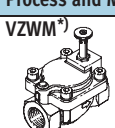
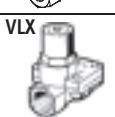
Valves and Valve Manifolds


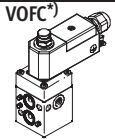
Stand-alone Directional Control Valves				
Type	Valve Width	Max. Flow Rate	Pressure Range	Port Sizes
 VUVB ^{*)}	20 mm	scfm: 35 l/min: 1,000	psi: -13 ... 118 bar: -0.9 ... 8	1/4, 5/16, 3/8 NPT
 Tiger Classic ^{*)}	26, 30, 52, 68 mm	scfm: 265 l/min: 7,500	psi: -13 ... 150 bar: -0.9 ... 10	1/8, 1/4, 1/2 NPT

Specialty Valves				
Type	Valve Width	Max. Flow Rate	Pressure Range	Port Sizes

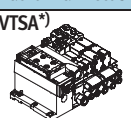
Proportional Pressure Regulators				
 VPPM	41.5 mm	scfm: 55 l/min: 1,400	psi: 29 ... 146 bar: 2 ... 11	1/8 NPT

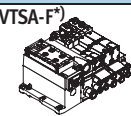
Fast-switching Valves				
 MHJ9	9 mm	scfm: 3.5 l/min: 100	psi: 7 ... 88 bar: 0.5 ... 6	QS fittings for tubing O.D. 1/4"
 MHJ10	10 mm	scfm: 3.5 l/min: 100	psi: 7 ... 88 bar: 0.5 ... 6	QS fittings for tubing O.D. 1/4"

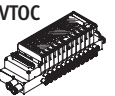
Process and Media Valves				
 VZWM ^{*)}	44, 48, 70, 96, 112 mm	scfm: 23 l/min: 650	psi: 7 ... 150 bar: 0.5 ... 10	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2 NPT
 VLX	48, 70 mm	scfm: 8.2 l/min: 230	psi: 15 ... 150 bar: 1 ... 10	1/4, 3/8, 1/2, 3/4, 1 NPT

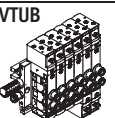
Stand-alone Valves with Port Pattern to NAMUR ¹⁾				
 NVF3 ^{*)} , MFH ^{*)} , MN1H ^{*)} , MGTBH ^{*)}	44, 53 mm	scfm: 35 l/min: 1,000	psi: 29 ... 150 bar: 2 ... 10	1/4 NPT
 VOFC ^{*)}	40, 51 mm	scfm: 106 l/min: 3,000	psi: 29 ... 118 bar: 2 ... 8	1/4, 1/2 NPT

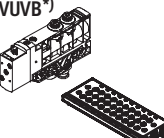
Directional Control Valve Manifolds				
Type	Valve Width	Pressure Range	Nominal Flow Rate	Port Sizes

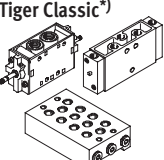
Valve Manifolds to ISO 15 407-2 and ISO 5599-2				
 VTSA ^{*)}	18, 26, 42, 52 mm	psi: -13 ... 150 bar: -0.9 ... 10	scfm: 113 l/min: 3,200	1/8, 1/4, 3/8, 1/2 NPT

Valve Manifolds for Standard Applications				
 VTSA-F ^{*)}	18, 26 mm	psi: -13 ... 150 bar: -0.9 ... 10	scfm: 49 l/min: 1,400	1/8, 1/4 NPT

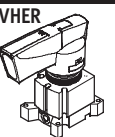
 VTOC	10 mm	psi: 0 ... 118 bar: 0 ... 8	scfm: 0.4 l/min: 10	10-32UNF, 1/8 NPT QS fittings for tubing O.D. 1/8, 1/4, 3/8"
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 VTUB	20 mm	psi: -13 ... 118 bar: -0.9 ... 8	scfm: 35 l/min: 1,000	1/4, 1/2 NPT QS fittings for tubing O.D. 1/4, 5/16, 3/8"
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 VUVB ^{*)}	20 mm	psi: -13 ... 118 bar: -0.9 ... 8	scfm: 35 l/min: 1,000	1/4, 1/2 NPT QS fittings for tubing O.D. 1/4, 5/16, 3/8"
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 Tiger Classic ^{*)}	26, 30, 52, 68 mm	psi: -13 ... 150 bar: -0.9 ... 10	scfm: 265 l/min: 7,500	1/8, 1/4, 1/2 NPT
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Manual and Mechanical Valves			
Type	Pressure Range	Nominal Flow Rate	Port Sizes

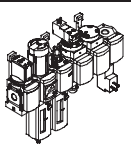
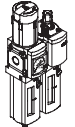
 VHER	bar: -0.95 ... 10 psi: -14 ... 150	scfm: 152 l/min: 4,300	1/8, 1/4, 1/2 NPT
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1) Selected types approved in accordance with directive 94/9/EC (ATEX).

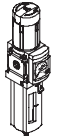
*) Valves marked with an asterisk support 110 VAC coils.


Air Preparation Units, MS Series




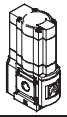
Standard Units		
Type	Pneumatic Connection (NPT)	Consisting of
	1/4, 1/2	Standard Assembled Combination Units – Filter regulator with pressure gauge – Pressure regulator with pressure gauge – Filter – Lubricator – On-off valve – Soft-start valve – Distribution block
	1/8, 1/4, 3/8, 1/2	Service Units MS-FRC – Filter regulator with pressure gauge – Lubricator

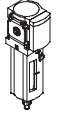
Filter/Regulators and Pressure Regulators			
Type	Pneumatic Connection (NPT)	Nominal Flow Rate	Pressure Regulating Ranges

Filter/Regulators MS-LFR			
	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2	scfm: 30 ... 600 l/min: 850 ... 17,000	psi: 4.4 ... 235 bar: 0.3 ... 16


Standard Pressure Regulators MS-LR, MS-LRB			
	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2	scfm: 11 ... 777 l/min: 300 ... 7,300	psi: 4.4 ... 235 bar: 0.3 ... 16


Precision Pressure Regulators MS-LRP			
	1/4, 3/8, 1/2, 3/4	scfm: 28 ... 177 l/min: 800 ... 5,000	psi: 0.7 ... 176 bar: 0.05 ... 12


Electrical Pressure Regulators MS-LRE			
	1/4, 3/8, 1/2, 3/4	scfm: 78 ... 265 l/min: 2,200 ... 7,500	psi: 4.4 ... 235 bar: 0.3 ... 16

Filters			
Type	Pneumatic Connection (NPT)	Nominal Flow Rate	Filtration grade [µm]
	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2	scfm: 4.2 ... 565 l/min: 120 ... 16,000	Standard Filters MS-LF: 5, 40 Fine and Micro Filters MS-LFM: 0.01, 1 Active Carbon Filters MS-LFX: N/A


Other Servicing Components			
Type	Pneumatic Connection (NPT)	Nominal Flow Rate	Miscellaneous

Membrane Air Dryers MS-LDM			
	1/8, 1/4, 3/8, 1/2, 3/4	scfm: 1.8 ... 14 l/min: 50 ... 400	Pressure dew point reduction: 17 ... 20 K


Water Separators MS-LWS			
	1/4, 3/8, 1/2	scfm: 0.4 ... 353 l/min: 10 ... 1,000	–

Lubricators MS-LOE			
	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2	scfm: 39 ... 777 l/min: 1,100 ... 22,000	–

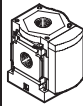
On-Off and Soft-start Valves			
Type	Pneumatic Connection (NPT)	Nominal Flow Rate	Variants

	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2	scfm: 35 ... 1,483 l/min: 1,000 ... 42,000	<ul style="list-style-type: none"> On-Off valves, manually or solenoid actuated Soft-start valves, pneumatically or solenoid actuated
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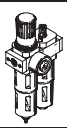
Safety Valve MS-SV			
Type	Pneumatic Connection (NPT)	Nominal Flow Rate	Variants

	1/4, 3/8, 1/2, 3/4	scfm: 95 ... 228 l/min: 2,700 ... 6,450	<ul style="list-style-type: none"> Solenoid actuated
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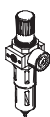
Distribution Blocks MS-FRM, MS-FRZ			
Type	Pneumatic Connection (NPT)	Nominal Flow Rate	Options / Variants

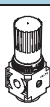
	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2	scfm: 42 ... 1,765 l/min: 1,200 ... 50,000	<ul style="list-style-type: none"> Pressure gauge Pressure sensor Without pressure gauge
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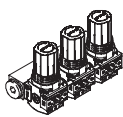
Air Preparation Units, D Series

Service Units FRC		
Type	Pneumatic Connection (NPT)	Consisting of
	1/8, 1/4, 3/8, 1/2, 3/4, 1	Filter regulator with pressure gauge Lubricator

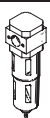
Filter/Regulators and Pressure Regulators			
Type	Pneumatic Connection (NPT)	Nominal Flow Rate	Pressure Regulating Ranges

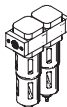
Filter/Regulators LFR			
	1/8, 1/4, 3/8, 1/2, 3/4, 1	scfm: 4 ... 275 l/min: 110 ... 7,800	psi: 7 ... 176 bar: 0.5 ... 12

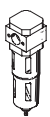
Pressure Regulators LR, LRS			
	1/8, 1/4, 3/8, 1/2, 3/4, 1	scfm: 4 ... 297 l/min: 120 ... 8,400	psi: 7 ... 176 bar: 0.5 ... 12

Pressure Regulator Combinations LRB-K, 2 ... 5 Regulators			
	1/4, 3/8, 1/2	scfm: 56 ... 134 l/min: 1,600 ... 3,800	psi: 7 ... 176 bar: 0.5 ... 12


Filters			
Type	Pneumatic Connection (NPT)	Nominal Flow Rate	Filtration grade [µm]

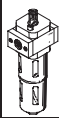
Filters LF/LFMB/LFMA			
	1/8, 1/4, 3/8, 1/2, 3/4, 1	scfm: 3 ... 187 l/min: 80 ... 5,300	Standard Filters LF: 5, 40 Fine and Micro Filters LFMB: 0.01, LFMA: 1

Fine and Micro Filter Combinations LFMBA			
	1/8, 1/4, 3/8, 1/2, 3/4, 1	scfm: 4 ... 21 l/min: 125 ... 600	0.01, 1

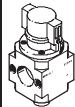
Active Carbon Filters LFX			
	1/8, 1/4, 3/8, 1/2, 3/4, 1	scfm: 13 ... 39 l/min: 360 ... 1,100	N/A (Residual oil content ≤ 0.003 mg/m ²)

Other Servicing Components			
Type	Pneumatic Connection (NPT)	Nominal Flow Rate	Miscellaneous

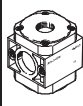
Membrane Air Dryers LDM			
	1/2, 3/4, 1	scfm: 11 ... 35 l/min: 300 ... 1,100	Pressure dew point reduction: 20 K

Lubricators LOE			
	1/8, 1/4, 3/8, 1/2, 3/4, 1	scfm: 6 ... 318 l/min: 160 ... 9,000	–

On-Off and Soft-start Valves			
Type	Pneumatic Connection (NPT)	Nominal Flow Rate	Function


	1/8, 1/4, 3/8, 1/2, 3/4, 1	scfm: 35 ... 293 l/min: 1,000 ... 6,500	<ul style="list-style-type: none"> On-Off valves, manually or solenoid actuated Soft-start valves, pneumatically or solenoid actuated
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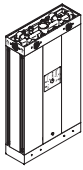
Distribution Blocks FRM/FRZ			
Type	Pneumatic Connection (NPT)	Nominal Flow Rate	

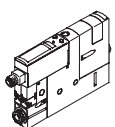
	1/8, 1/4, 3/8, 1/2, 3/4, 1	scfm: 53 ... 706 l/min: 1,500 ... 20,000	Options: Pressure gauge Pressure sensor
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Individual Air Preparation Devices, Vacuum Generators, Sensors

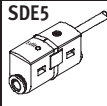
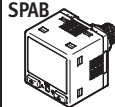
FESTO

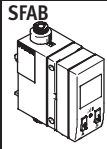

On-Off Valves HE-LO, Manually Operated			
Type	Pneumatic Connection (NPT)	Nominal Flow Rate	Pressure Regulating Range [psi]
	3/8, 1/2, 3/4, 1	scfm: 35 ... 353 l/min: 1,000 ... 10,000	–

Adsorption Dryers PDAD			
Type	Pneumatic Connection (NPT)	Output Flow Rate	Description
	3/8, 1/2	scfm: 3.1 ... 35 l/min: 87 ... 994	Cold-regenerating adsorption dryer for decentralized compressed air drying Pressure dew point: –40 or –70 °C

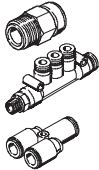
Vacuum Generators OVEM			
	Max. Suction Rate	Pneumatic Connection (NPT)	Description
	scfm: 0.2 ... 1.6 l/min: 6 ... 45	1/8, 1/4 QS-1/4, QS-5/16	High vacuum or high suction rate Ejector pulse Open silencer


Pressure Gauges MA			
	Operating Pressure and Display Units	Pneumatic Connection (NPT)	Variants
	0 ... 1, 0 ... 2.5, 0 ... 6, 0 ... 10, 0 ... 16, 0 ... 25 bar 0 ... 36, 0 ... 145, 0 ... 232 psi	1/8, 1/4 QS-5/32, QS-3/16, QS-1/4, QS-5/16, QS-3/8	<ul style="list-style-type: none"> To DIN EN 837-1 W/ adjustable red/green range For QS fittings

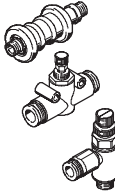
Pressure Sensors			
Type	Pressure Measuring Ranges	Pneumatic Connection (NPT)	Electrical Output, Switching Function
	psi: –14 ... 147 bar: –1 ... 10	Push-in fitting for tubing OD 5/32 or 1/4"	N/O or N/C contact, switchable, 1 ... 10 V Freely programmable
	psi: –14 ... 147 bar: –1 ... 10	10-32UNF, 1/8	PNP, 2x PNP, NPN, 2x NPN, 1 ... 5 V Freely programmable

Flow Sensors			
Type	Flow Measuring Ranges	Pneumatic Connection (NPT)	Electrical Output, Switching Function
	scfm: 0 ... 35 l/min: 0.1 ... 1,000	Push-in fitting for tubing OD 1/4, 5/16 or 3/8"	2x PNP, 2x NPN, 0 ... 10 V, 4 ... 20 mA Threshold comparator, Window comparator
	scfm: 0.4 ... 177 l/min: 10 ... 5,000	1/2, 1	2x PNP, 2x NPN, 0 ... 10 V, 4 ... 20 mA Threshold comparator, Window comparator

QS/QB Push-in Fittings, Flow Control Valves, Silencers, Accessories, Tubing


Push-in Fittings and Connectors, Inch Series		
Type	Connections ^{*)}	Variants ^{*)}
 <p>QS, QB</p>	Threaded Connections: 10-32-UNF, 1/16NPT, 1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT Tubing O.D. [in]: 1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8	<ul style="list-style-type: none"> • Male / female thread • External / internal hex • Straight • Elbow • T-shape • Y-shape • X-shape • Multiple distributors • Rotary • Self-closing • Bulkhead • Reducers • Sleeves, caps, plugs



Hybrid Push-in Fittings		
Type	Connections ^{*)}	Variants ^{*)}
 <p>QS, QB</p>	Threaded Connections: M3, M5, R1/8, R1/4, R3/8, R1/2 Tubing O.D. [in]: 1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2	<ul style="list-style-type: none"> • Male thread • External / internal hex • Straight • Elbow • T-shape

Flow Control Valves		
Type	Connections ^{*)}	Variants ^{*)}
	Threaded Connections: 10-32-UNF, 1/16NPT, 1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT Tubing O.D. [in]: 1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8	<ul style="list-style-type: none"> • Non-return valves • Hand-slide valves • Flow control valves for exhaust or supply air control • Quick exhaust valves • Pressure regulating valves

^{*)} Not all combinations are available.

Note: Products with metric connectors can be used within inch tubing systems via hybrid fittings.

Silencers		
Type	Threaded Connection D1	Threaded Connection D2
 <p>U</p>	1/8NPT, 1/4NPT, 3/8NPT, 1/2NPT, 3/4NPT	–

Type	Tubing O.D./I.D. D1 [in]	Characteristics
External (O.D.) Calibrated		
	PUN-H Polyurethane, ether-based	1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8 Very high flexibility Food approval Good resistance against microbes, UV-radiation and hydrolysis
	PEN Polyethylene	5/32, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8 High flexibility Very good resistance against hydrolysis Good resistance against chemicals, microbes and UV-radiation
	PLN Polyethylene	5/32, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8 Very good resistance against hydrolysis Good resistance against chemicals, microbes and UV-radiation
Internal (I.D.) Calibrated		
	PU Polyurethane, ester-based	1/8, 5/32, 3/16, 1/4, 5/16, 3/8 Good resistance against UV-radiation

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