

**FESTO**

**KEIPER**

Festo components-list

Created by: Festo AG & Co. KG

Version 2.4 (Stand 10.08.2010)

## Table of contents

<b>1.1</b>	<b>Keiper locations .....</b>	<b>3</b>
<b>1.2</b>	<b>Festo contact persons.....</b>	<b>6</b>
<b>1.3</b>	<b>Produkt-Sonderfreigabe / Product – special release / Autorisation spéciale de produits .....</b>	<b>13</b>
<b>1.4</b>	<b>change documentation .....</b>	<b>15</b>
<b>2.0</b>	<b>release-list overview .....</b>	<b>16</b>
<b>2.1.</b>	<b>pneumatic drives and accessories .....</b>	<b>16</b>
<b>2.2</b>	<b>electric drives and accessories .....</b>	<b>23</b>
<b>2.4</b>	<b>service unit .....</b>	<b>29</b>
<b>2.5</b>	<b>accessories .....</b>	<b>30</b>
<b>3. 0.</b>	<b>ISO terminal for controlling presses .....</b>	<b>37</b>
<b>4.0</b>	<b>Standardised Service Units .....</b>	<b>37</b>
<b>4.1</b>	<b>Standard Service Unit Size MSB4 .....</b>	<b>38</b>
<b>4.2</b>	<b>Standard Service Unit Size MSB6 .....</b>	<b>39</b>
<b>4.3</b>	<b>“Hand-work place” Unit Size MSB4.....</b>	<b>40</b>
<b>4.4</b>	<b>“Hand-work place” Unit Size MSB6.....</b>	<b>41</b>

## 1.1 Keiper locations

### Germany

KEIPER GmbH & Co. KG  
Technisches Zentrum  
Hertelsbrunnenring 2  
67657 Kaiserslautern  
Germany  
Tel.: 0631/418-1000  
Fax: 0631/418-1999  
E-Mail: [info@keiper.com](mailto:info@keiper.com)

KEIPER GmbH & Co. KG  
Industriestraße 1  
67806 Rockenhausen  
Germany  
Tel.: 06361/86-6000  
Fax: 06361/86-6250

KEIPER GmbH & Co. KG  
Industriestraße 1  
67822 Mannweiler-Cölln  
Germany  
Tel.: 06361/86-6010  
Fax: 06362/99-4851

KEIPER GmbH & Co. KG  
Büchelstraße 54-58  
42855 Remscheid  
Germany  
Tel.: 02191/14-4000  
Fax: 02191/14-4344

### Brazil

KEIPER do Brasil Ltda.  
Rua Vemag, 101-Vila Carioca  
04217-050 São Paulo  
Brazil  
Tel.: +55(0)11/2113-4000  
Fax: +55(0)11/2113-4002  
E-Mail: [keiper.brazil@keiper.com](mailto:keiper.brazil@keiper.com)

KEIPER do Brasil Ltda.  
Av. Rocha Pombo, 2561 Módulo IV  
Bairro Águas Belas  
São José dos Pinhais/Curitiba  
83010-620 Paraná  
Brazil  
Tel.: +55(0)41/2105-5000  
Fax: +55(0)41/2105-5017  
E-Mail: [keiper.brazil@keiper.com](mailto:keiper.brazil@keiper.com)

**Canada** 

KEIPER Limited  
2290 Scanlan Street  
London, ON N5W 6G7  
Canada  
Tel.: +1519/4526900  
Fax: +1519/4526901  
E-Mail: [keiper.canada@keiper.com](mailto:keiper.canada@keiper.com)

**China** 

KEIPER (Shanghai) Automotive Seating Technology Co., Ltd.  
Building 2, No. 66 TianYing Road,  
Qingpu Industry Zone,  
Shanghai, P.R. China 201712  
China  
Tel.: +8621/39202207  
Fax: +8621/39202210  
E-Mail: [ralf.niezold.@keiper.com](mailto:ralf.niezold.@keiper.com)

**England** 

KEIPER UK Ltd.  
Woodgate Business Park  
Clapgate Lane, Barley Green  
Birmingham B32 3BZ  
United Kingdom  
Tel.: +44(0)121/4232828  
Fax: +44(0)121/4237005  
E-Mail: [keiper.uk@keiper.com](mailto:keiper.uk@keiper.com)

## Poland

KEIPER Polska Sp. z o.o.  
ul. Swierczewskiego 78  
66-200 Swiebodzin  
Poland  
Tel.: +48(0)68/3820400  
Fax: +48(0)68/3820404  
E-Mail: [keiper.polska.sw@keiper.com](mailto:keiper.polska.sw@keiper.com)

KEIPER Polska Sp.z o.o.  
ul. Motoryzacyjna 1  
49-318 Skarbimierz  
Poland  
Tel: +48(0)77/4009600  
Fax: +48(0)77/4009601  
E-Mail: [keiper.polska.ska@keiper.com](mailto:keiper.polska.ska@keiper.com)

## Spain

KEIPER Ibérica S.A.  
Ctra. La Almunia A-122, Km 37,2  
50280 Calatorao (Zaragoza)  
Spain  
Tel.: +34(0)976/544545  
Fax: +34(0)976/813857  
E-Mail: [keiper.iberica@keiper.com](mailto:keiper.iberica@keiper.com)

## USA

KEIPER LLC  
2600 Bellingham  
Suite 100  
Troy, MI 48083  
USA  
Tel.: +1248/6555100  
Fax: +1248/6555101  
E-Mail: [keiper.us@keiper.com](mailto:keiper.us@keiper.com)

KEIPER LLC  
1101 East Eighth Street  
Eldon, MO 65026  
USA  
Tel.: +1573/3922700  
Fax: +1573/3925804  
E-Mail: [keiper.us@keiper.com](mailto:keiper.us@keiper.com)

## 1.2 Festo contact persons

### Festo AG & Co. KG (Headquarter Germany)



**Thilo Hering**

Segment Manager Tier 1  
Automotive Management (HQ)  
Festo AG & Co. KG  
Rüterstr. 82  
D-73734 Esslingen

Tel : ++49 711-347-3628

Email : [tihe@de.festo.com](mailto:tihe@de.festo.com)

### Keiper (Germany)



**Axel Nitze**

Sales Engineer St. Ingbert (Keiper Rockenhausen)

Festo AG & Co. KG  
St. Herblainer Str. 7  
66386 St. Ingbert

Tel : ++49 6894-39051

Email : [niz@de.festo.com](mailto:niz@de.festo.com)

**Festo Automação Ltda. (Brazil)** **Ricardo Dorta**

Sales Engineer

Festo Automação Ltda.

Rua Guiseppe Crespi, 76

KM 12,5 - Via Anchieta

04183-080 São Paulo SP

Brazil

Cell : ++55(11)9622-5034

Email : [ricardo.dorta@br.festo.com](mailto:ricardo.dorta@br.festo.com)**Eduardo Alperovitch** 

Sales Supervisor

Festo Automação Ltda.

Rua Guiseppe Crespi, 76

KM 12,5 - Via Anchieta

04183-080 São Paulo SP

Brazil

Tel : ++55(11)5013-1896

Email : [eduardo.alperovitch@br.festo.com](mailto:eduardo.alperovitch@br.festo.com)**Evaldo Malta** 

Sales Manager

Festo Automação Ltda.

Rua Guiseppe Crespi, 76

KM 12,5 - Via Anchieta

04183-080 São Paulo SP

Brazil

Tel : ++55(11)5013-1891


Email : [evaldo.malta@br.festo.com](mailto:evaldo.malta@br.festo.com)

**Festo Inc. (Canada)** 

**Dan Post**  
Account Manager  
Festo Inc.  
5300 Explorer Drive  
Mississauga, Ontario, Canada, L4W 5G4  
Cell : ++ 1 519 404 2795  
Email : [dan.post@ca.festo.com](mailto:dan.post@ca.festo.com)



**Steven Smart**   
Sales Representative  
Festo Inc.  
5300 Explorer Drive  
Mississauga, Ontario, Canada, L4W 5G4  
Cell : ++1 519 857 6611  
Email : [steven.smart@ca.festo.com](mailto:steven.smart@ca.festo.com)

**Festo Ltd. (China)** 

**Lu Bin**  
AMI Manager  
Festo Ltd.  
1156 Yunqiao Road  
Jinqiao Export Processing Zone  
Pudong  
201206 Shanghai  
China  
Tel : ++86-021-58549001-217  
Email : [bin\\_lu@cn.festo.com](mailto:bin_lu@cn.festo.com)

**Liu Lei** 

Local sales engineer  
Festo Ltd.  
1156 Yunqiao Road  
Jinqiao Export Processing Zone  
Pudong  
201206 Shanghai  
China

Tel : ++86-021-58549001-123

E-Mail: [lei\\_yu@cn.festo.com](mailto:lei_yu@cn.festo.com)

**Festo Pneumatic S.A. (Spain)** **Santiago Sierra**

Sales Engineer  
Feso Pneumatic, S.A.  
Avenida Granvia, 159  
Distrito económico Granvia L'H  
08908 Hospitalet de Llobregat  
Barcelona  
Spain

Tel : ++34 976 533 085

Email : [es0ss@es.festo.com](mailto:es0ss@es.festo.com)

**Festo Limited (England)** **Larry Compton**

Sales Consultant  
Festo Limited  
Applied Automation Centre  
Caswell Road  
Brackmills Trading Estate  
Northampton NN4 7PY  
England

Cell : ++44(7976)298171

Email: [larry\\_compton@gb.festo.com](mailto:larry_compton@gb.festo.com)



**Stuart Gittins**   
Sales Manager  
Festo Limited  
Applied Automation Centre  
Caswell Road  
Brackmills Trading Estate  
Northampton NN4 7PY  
England  
Cell : ++44(1604)66-7020  
Email: [stuart\\_gittins@gb.festo.com](mailto:stuart_gittins@gb.festo.com)




**Andy Macpherson**   
Deputy Sales Manager  
Festo Limited  
Applied Automation Centre  
Caswell Road  
Brackmills Trading Estate  
Northampton NN4 7PY  
England  
Cell : ++44(1636)672374  
Email: [andy\\_macpherson@gb.festo.com](mailto:andy_macpherson@gb.festo.com)

### **Festo Controls Pvt Ltd (India)**



**Ramesh Rangappa**  
Manager- Automotive Industries  
Festo Controls Pvt Ltd  
237B, Bommasandra Industrial AreaMississauga,  
Bangalore-Hosur Highway  
Bangalore -560099  
India  
Tel : ++91(0)80-22894100  
Email: [ramesh\\_r@in.festo.com](mailto:ramesh_r@in.festo.com)

**Festo Sp. z o.o. (Poland)** **Andrzej Soldaty**

Sales Manager  
Festo Sp. z o.o.  
Janki k/Warszawy  
ul. Mszczonowska 7  
05090 Raszyn  
Poland

Tel : ++48(22)7114-172  
Email : [andrzej\\_soldaty@festo.com](mailto:andrzej_soldaty@festo.com)

**Ireneusz Sroczynski** 

Sales Engineer  
Festo Sp. z o.o.  
ul. Niezlomnych 1A  
61894 Poznan  
Poland

Tel : +48(61)8589-702  
Email : [ireneusz\\_sroczynski@festo.com](mailto:ireneusz_sroczynski@festo.com)

**Stefan Dworzak** 

Sales Engineer  
Festo  
Region Zachód  
ul. Rodakowskiego 11  
51-637 Wrocław  
Poland

Tel : +48(71)3484182  
Email : [stefan\\_dworzak@festo.com](mailto:stefan_dworzak@festo.com)

**Festo Cooperation (USA)** **Bill Janssens**

National Automotive Segment Manager  
Festo Cooperation  
2601 Cambridge Court, Suite 320  
Auburn Hills, MI 48326  
USA

Tel : ++1 (248) 340 1778

Email : [bill.janssene@us.festo.com](mailto:bill.janssene@us.festo.com)

**Mark Vick** 

Sales Engineer  
Festo Cooperation  
502 Earth City Expressway Suite 125  
63045 Saint Louis  
USA

Cell : ++ 1 (618) 727 2202

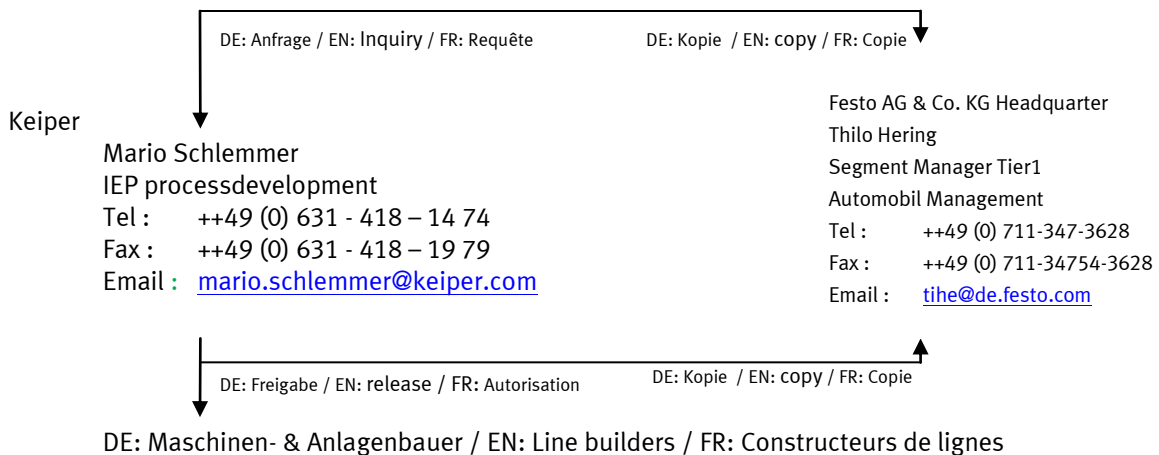
Email : [mark.vick@us.festo.com](mailto:mark.vick@us.festo.com)

## 1.3 Produkt-Sonderfreigabe / Product – special release / Autorisation spéciale de produits

DE: Dieses Formular soll für alle Produkt-Sonderfreigaben für Keiper Projekte verwendet werden.  
 EN: This form ought to be used for all product – special releases for Keiper.  
 FR: Ce formulaire s’applique à toutes les autorisations spéciales de produits Keiper.

### 1. DE: Informationsfluss / EN: Flow of information / FR: Circuit d’information

DE: Maschinen- & Anlagenbauer / EN : Line builders / FR: Constructeurs de lignes  
 (DE: Adressdaten siehe Pos. 2 / EN: address data see pos.2 / FR: Voir point 2 pour adresses)



### 2. DE: Adressdaten Maschinen-/Anlagenbauer / EN: Address data of the line builders / FR: Coordonnées constructeurs de lignes

DE: Firma / EN: company / FR: Société:	DE: Datum/ EN: Date / FR: Date:
DE: Kontaktperson / EN: contact person / FR: Interlocuteur:	DE: Abteilung / EN: department / FR: Service:
Email:	
Tel:	Fax:

**3. DE: Produkt-Sonderfreigabe Product / EN: special release / FR: Autorisations spéciales de produits**

DE: Projektname / EN: project name / FR: Nom du projet (Keiper):	
DE: Projektnummer / EN: project number /FR: N° de projet (Keiper):	DE: Produktionsstandort (Land/Stadt) / EN: location (country/city) / FR: Site (Pays/ville):
DE: Freigegebenes Produkt (ein Produkt pro Formular / EN: Released product (one product per form) / FR: Produit autorisé (un produit par formulaire):	
DE: Gründe für Produkt-Sonderfreigabe / EN: Reason for the product-special release / FR: Motif de cette autorisation spéciale:	

**4. Autorisation / Release / Freigabe**





- DE: Freigabe erteilt / EN: Product release approved / FR: Autorisation obtenue
- DE: Freigabe nicht erteilt/ EN: Product release not approved / FR: Autorisation refusée

DE: Begründung / EN: Reasons / FR: Raisons	
DE: Freigabe durch/ EN: Release by / FR: autorisé par	DE: Freigabe am/ EN: Release on / FR: autorisé le







## 2.0 release-list overview




### 2.1. pneumatic drives and accessories






Designation	Type	Note	Picture	
<b>Standard cylinder DNCB</b>	DNCB-...	Diameter 32, 40, 50, 63, 80, 100 mm Stroke length 2 ... 2 000 mm Force 483 ... 4 712 N Position sensing Adjustable cushioning Male thread. <ul style="list-style-type: none"> <li>usage whenever technically possible</li> <li>special lengths (X-stroke) on special release only</li> </ul>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Cylinders to standards DNC, metric</b>	DNC-...	Diameter 32, 40, 50, 63, 80, 100, 125 mm Stroke length 10 ... 2 000 mm Force 483 ... 7 363 N Position sensing Fixed or adjustable cushioning Male thread. <ul style="list-style-type: none"> <li>usage on special release only</li> </ul>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Cylinders to standards DNG, metric</b>	DNG-...	Diameters 160, 200, 250, 320 mm Stroke length 10 to 2,000 mm Force 483 to 48,250 N Position sensing Adjustable cushioning Male thread Trunnion flange. <ul style="list-style-type: none"> <li>usage for diameter 160 mm and bigger on special release only</li> </ul>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Standard cylinders ADN, AEN</b>	ADN-...	Diameter 12, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125 mm Stroke length 1 ... 500 mm Force 68 ... 7 363 N Position sensing Fixed cushioning Female thread Male thread.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>



Designation	Type	Note	Picture	
<b>Multi-position cylinder ADNM</b>	ADNM-...	<p>Diameters: 25, 40, 63 and 100 mm                      Position sensing                      Fixed cushioning                      Internal thread                      External thread</p> <ul style="list-style-type: none"> <li>usage on special release only</li> </ul>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Compact cylinder ADNGF</b>	ADNGF-...	<p>Standard cylinder to ISO 21287</p> <ul style="list-style-type: none"> <li>usage on special release only</li> </ul>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a>
<b>Standard cylinders DSNU, ESNU, metric</b>	DSNU-...	<p>Diameter 8, 10, 12, 16, 20, 25 mm                      Stroke length 1 ... 500 mm                      Force 30 ... 295 N                      Position sensing                      Fixed or adjustable cushioning                      Female thread                      Male thread                      Mounting flange.</p>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Round cylinders DSNU, ESNU, metric</b>	DSNU-...	<p>Diameter 32, 40, 50, 63 mm                      Stroke length 1 ... 500 mm                      Force 483 ... 1 870 N                      Position sensing                      Fixed or adjustable cushioning                      Female thread                      Male thread                      Mounting flange.</p>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>DGSL mini slide</b>	DGSL-...	<p>Size 4 to 25 mm                      Stroke length 10 to 200 mm                      Force 17 to 483 N                      Position sensing                      Fixed/adjustable cushioning                      Recirculating ball bearing guide.</p>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a>



Designation	Type	Note	Picture	
<b>Linear drives DGC</b>	DGC-...	Size 8, 12, 18, 25, 32, 40, 50, 63 mm Stroke length 1 ... 5000 mm Force 30 ... 1870 N Position sensing Serval damping options are possible Führungsveranten - Basic design - Plain-bearing guide - Recirculating ball bearing guide.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Clamping cartridges KP</b>	KP-...	For round material 4, 6, 8, 10, 12, 16, 20, 25, 32 mm.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>

Designation	Type	Note	Picture	
<b>Clamping units KEC, KPE</b>	KPE-...	For round material 4, 6, 8, 10, 12, 16, 20, 25, 32 mm.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Semi-rotary drives DRQD</b>	DRQD-...	Size 6, 8, 12, 16, 20, 25, 32, 40, 50 mm Torque 0.16 ... 50 Nm Swivel angle 0 ... 360° Position sensing Adjustable cushioning System product for handling and assembly technology.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Semi-rotary drives DRQ</b>	DRQ-...	Size 16, 20, 25, 40, 50, 63, 80, 100 mm Torque 0.5 ... 150 Nm Swivel angle 0 ... 360° Position sensing Cushioning Fixed spigot shaft.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Swivel modules DSM</b>	DSM-...	Size 6, 8, 10, 12, 16, 25, 32, 40 mm Torque 0.15 ... 20 Nm Swivel angle 0 ... 270° Position sensing Fixed cushioning.		<a href="#">DocuEN</a> (DSM) <a href="#">DocuEN</a> (DSM-B) <a href="#">DocuDE</a> (DSM) <a href="#">DocuDE</a> (DSM-B) <a href="#">DocuES</a> (DSM) <a href="#">DocuES</a> (DSM-B) <a href="#">DocuFR</a> (DSM)
<b>Shock absorber YSR, YSRW, DYSW, DYEF, DYSC</b>	YSR-...	Size 4, 5, 7, 8, 10, 12, 16, 20, 25, 32 mm Stroke length 4 to 60 mm 0.6 to 380 J per stroke Adjustable cushioning Self-adjusting cushioning Progressive cushioning		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>






Designation	Type	Note	Picture	
<b>Tandem cylinder based on ISO 21287 ADNH</b>	ADNH-...	<p>Diameter 25, 40, 63, 100 mm            Stroke length 1 ... 150 mm            Force 542 ... 18281 N            Position sensing            Fixed cushioning            Without thread            Female thread            Male thread.</p> <ul style="list-style-type: none"> <li>usage on special release only</li> </ul>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Short-stroke cylinders ADVC, AEVC</b>	ADVC-...	<p>Diameter 4, 6, 10, 12, 16, 20, 25, 32, 40, 50, 63, 80, 100 mm            Stroke length 2,5 ... 25 mm            Force 7,5 ... 4 712 N            Position sensing            Fixed cushioning            Without thread            Without thread            Female thread            Male thread.</p>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Guided drive units DFM</b>	DFM-...	<p>Diameters 12, 16, 20, 25, 32, 40, 50, 63, 80, 100 mm            Stroke length 10 ... 400 mm            Force 68... 4,712 N            Position sensing            Fixed/adjustable cushioning            Plain-bearing guide            Recirculating ball bearing guide.</p>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Twin-piston cylinders (twin) DPZ</b>	DPZ-...	<p>Diameter 10, 16, 20, 25, 32 mm            Stroke length 10 ... 100 mm            Force 94 ... 966 N            Position sensing            Fixed cushioning            Plain-bearing guide            Recirculating ball bearing guide.</p>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Flat cylinder DZF, metric</b>	DZF-...	<p>Diameter 12, 18, 25, 32, 40, 50, 63 mm            Stroke length 10 ...320 mm            Force 68 ... 1 870 N            Position sensing            Adjustable cushioning            Female thread            Male thread.</p>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>




Designation	Type	Note	Picture	
<b>Flat cylinder DZH, metric</b>	DZH-...	Diameter 16, 20, 25, 32, 40, 50, 63 mm Stroke length 10 ... 1 000 mm Force 121 ... 1 870 N Position sensing Adjustable cushioning Male thread.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Guide units for standard cylinders to according ISO 6432</b>	FEN-...	For Diameter 8, 10, 12, 16, 20, 25 mm Stroke length 1 ... 250 mm Plain-bearing guide Recirculating ball bearing guide.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Guide units for standard cylinders to according ISO 15552</b>	FEN-...	For Diameter 32, 40, 50, 63, 80, 100 mm Stroke length 10 ... 500 mm Plain-bearing guide Recirculating ball bearing guide.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Guide units for standard cylinders to according ISO 15552</b>	FENG-...	For Diameter 32, 40, 50, 63, 80, 100 mm Stroke length 10 ... 500 mm Plain-bearing guide Recirculating ball bearing guide.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>CLR linear-swivel clamp</b>	CLR-...	Diameter 12, 16, 20, 25, 32, 40, 50, 63 mm Stroke length 10 ... 50 mm Force 51 ... 1 682 N Swivel angle 90° Position sensing Fixed cushioning.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>

Designation	Type	Note	Picture	
<b>Pin-Clamp-Cylinder</b>	CTLU-...	Diameter 50 mm Stroke 10 mm Centering pin 12, 16 and 20 mm Position sensing Fixed cushioning		Docu available on request.  Please contact <a href="#">Thilo Hering</a> .
<b>Hinge-Cylinder</b>	MDW-... DW-...	Diameter 32, 50, 63 and 80 mm Stroke 10 ... 200 mm Force 414 ... 3014 N Position sensing Adjustable cushioning		Docu available on request.  Please contact <a href="#">Thilo Hering</a> .





Designation	Type	Note	Picture	
<b>Slot 8 SME, SMT,</b>	SMT-... SME-...	Voltage 24 V DC, 230 V AC Cable length 2.5, 5 and 7.5 m Connection plug M5, M8, M12 Electrically - With reed contact - Non-contacting PNP, NPN Pneumatic.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Slot 10 SME, SMT</b>	SMT-... SME-...	Voltage 24 V DC, 230 V AC Cable length 2.5, 5 and 7.5 m Connection plug M5, M8, M12 Electrically - With reed contact - Non-contacting PNP, NPN		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a>

## 2.2 electric drives and accessories





Designation	Type	Note	Picture	
<b>DNCE electrical cylinders</b>	DNCE-...	Size 32, 40 Stroke length 100 to 600 mm Motor connection, axial or parallel		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Toothed belt axes DGE-ZR</b>	DGE-...	Size 8, 12, 18, 25, 40, 63 mm Stroke length 1 ... 5 000 mm Force 15 ... 1 500 N Speed 1 ... 10 m/s Repetition accuracy 0.08 ... 0.1 mm Position sensing With stepper motor With servo motor.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Toothed belt axes EGC-TB</b>	EGC-...	Size 50, 70, 80, 120, 185 mm Stroke length 50 ... 8,500 mm Force 50... 2,500 N.  to be used for new designs		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Spindle axes DGE-SP</b>	DGE-...	Size 18, 25, 40, 63 mm Stroke length 100 ... 2 000 mm Force 140 ... 1 600 N Speed 0.2 ... 1,2 m/s Repetition accuracy 0.2 mm Position sensing With stepper motor With servo motor.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Spindle axes EGC-BS</b>	EGC-...	Size 70, 80, 120, 185 mm Stroke length 50 ... 3,000 mm Force 300... 3,000 N.  to be used for new designs		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>



Designation	Type	Note	Picture	
<b>Cantilever axes DGEA-ZR</b>	DGEA-...	Size 18, 25, 40 mm Stroke length 1 ... 1 000 mm Force 230 ... 1 000 N Position sensing With stepper motor With servo motor.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Spindle axes DMES</b>	DMES-...	Size 18, 25, 40, 63 Stroke length 50 ... 1 200 mm Force 500 ... 1 000 N Position sensing With motor unit MTR-DCI.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Toothed belt axes ELGR</b>	ELGR-...	Size 35, 45, 55 mm Stroke length 50 ... 3000 mm Force 50 ... 350 N Recirculating ball bearing guide or plain-bearing guide		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>

Designation	Type	Note	Picture	
<b>Electric mini slide SLTE</b>	SLTE-...	Size 10, 16 stroke length 50 ... 150 mm with motor controller SFC-DC		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Motor controller SFC</b>	SFC-...	Voltage 24 V DC, nominal current 3 A.		<a href="#">DocuEN</a> (HME) <a href="#">DocuEN</a> (SLTE) <a href="#">DocuDE</a> (HME) <a href="#">DocuDE</a> (SLTE) <a href="#">DocuES</a> (HME) <a href="#">DocuES</a> (SLTE) <a href="#">DocuFR</a> (HME) <a href="#">DocuFR</a> (SLTE)
<b>HME linear module</b>	HME-...	Size 16, 25 Stroke length 100 to 400 mm Precision backlash-free guide Freely programmable position, speed and acceleration Highly flexible.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Motor unit MTR-DCI</b>	MTR-...	Size 32, 42, 52, 62 Torque 0.15 ... 11.66 Nm Voltage 24, 48 V DC Nominal current 0.73 ... 6.19 A Suitable motor cable.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Stepper motors EMMS-ST</b>	EMMS-...	Sizes 42, 57, 87 Torque 0.5 to 8.6 Nm Voltage 24 to 72 V DC Nominal current 1.8 to 9.5 A Suitable motor cable Suitable motor flange.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>



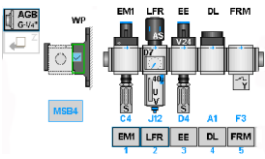
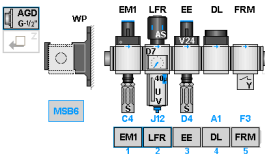
Designation	Type	Note	Picture	
<b>Motor controllers CMMS-ST</b>	CMMS-...	Voltage 24, 48 V DC Nominal current 8 A Max. step frequency 4 kHz		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Servo motors EMMS-AS</b>	EMMS-...	Size 40, 55, 70, 100, 140 Torque 1 to 48.8 Nm Voltage 360 to 565 V DC Nominal current 0.6 to 7.4 A Suitable motor cable Suitable motor flange.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Motor controllers CMMS-AS</b>	CMMS-...	Nominal voltage 230 V AC Nominal current 4 A Rated output 600 VA.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Motor controllers CMMP-AS</b>	CMMP-...	Nominal voltage 230 V AC, 400 V AC Nominal current 2 A, 11 A Rated output 500 ... 5000 VA		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>

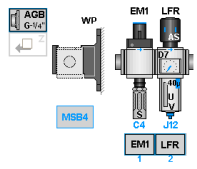
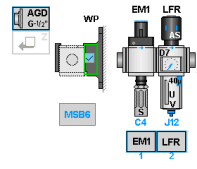
## 2.3 valve terminals

Designation	Type	Note	Picture	
<b>Valve terminals, type 32 MPA</b>	MPA-...	<p>Flow rates: 360 to 700 l/min Widths: 10 and 20 mm Variability: flexible compressed air supply, variable pressure zones, additional supply at any desired location.</p> <p>Serial valve actuation - up to 32 valve positions or 64 solenoid coils Open for Profibus-DP, Interbus, CANopen, DeviceNet, CC-Link Pressure range: -0.9 to 10 bar Protection: IP 65 Electrical I/Os and fieldbus connection with modular, electrical CPX terminal</p>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Valve terminals, type 10 Compact Performance CPV</b>	CPV10-...	<p>Widths: <b>14 and 18 mm (only)</b> Flow rates: 800 and 1600 l/min Diverse valve functions and additional functions Connection to the CPX electronic terminal via CP interface.</p> <ul style="list-style-type: none"> <li>usage with pneumatic multipole only (code letter P)</li> </ul>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Valve manifolds type 44 VTSA</b>	VTSA-...	<p>NPT or ISO ports Flow (rate) 0.7 ... 1.4 Cv / 700 ...1,400 l/min Width 18, 26 mm 2 ... 32 valve multi-pole connection fieldbus connection channel-oriented diagnosis. NPT or ISO ports</p> <p>usage only for:</p> <ul style="list-style-type: none"> <li>flow rates &gt; 700 l/min</li> <li>press controlling functions according to safety standards (<a href="#">click here</a>)</li> </ul>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>CPX electrical terminal</b>	CPX	<p>Operation mode</p> <ul style="list-style-type: none"> <li>- Stand-alone</li> <li>- with valve terminal type 32 MPA</li> </ul> <p>Input/output modules Digital Analog.</p>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>



Designation	Type	Note	Picture	
<b>Valves for type 32 MPA</b>	VMPA1-...	Flow rates of up to 700 l/min Voltage: 24 V DC Easy valve replacement For modular, multifunctional valve terminal with up to 64 valves.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Standard valves ISO 15407-1 (VDMA 24 563)</b>	VSVA-...	Port G1/8, ISO 02; G1/4, ISO 01 Flow rate 500 ... 1,000 l/min Voltage 12, 24 V DC, 24, 110, 230 V AC Conection sub-base Manifold sub-base		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>


## 2.4 service unit




Designation	Type	Note	Picture	
<b>Series MS modular and configurable</b>	...	<p>Size 4, 6 connection G1/4, G1/2, also available with NPT thread                      pressure 0.5 ... 12 bar                      flow rate 550 ... 5 100 l/min                      pressure gauge                      - with pressure gauge in bar                      - with pressure gauge in psi                      - with pressure gauge in Mpa                      filter grade                      - 40 µm                      - 5 µm                      condensate drain                      - manual                      - semi-automatic                      - completely automatic                      plastic bowl with plastic guard basket                      metal bowl                      flow direction                      - from left to right                      - from right to left                      proportional lubricator.</p>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Safety on-off / soft-start valve MS6-SV</b>	MS6-...	<p>Port G1/4, G3/8, G1/2, G3/4                      Flow rate 4300 l/min.                      Conforms to EN 61508 and EN ISO 13849-1 (Performance level “e”/category 4 to EN ISO 13849-1)                       to be used in machines where the performance level (PL) “d” or “e” is needed and where the safety function “safe exhaust” is required</p>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Standard Service Unit Size MSB4</b>		<p>according to standard Keiper                      Size 4</p>		<a href="#">DocuEN</a> <a href="#">DocuDE</a>
<b>Standard Service Unit Size MSB6</b>		<p>according to standard Keiper                      Size 6</p>		<a href="#">DocuEN</a> <a href="#">DocuDE</a>

<b>Hand-work place Size MSB4</b>	according to standard Keiper Size 4		<a href="#">DocuEN</a> <a href="#">DocuDE</a>
<b>Hand-work place Size MSB6</b>	according to standard Keiper Size 6		<a href="#">DocuEN</a> <a href="#">DocuDE</a>

## 2.5 accessories

Designation	Type	Note	Picture	
<b>Outside calibration</b>	PUN-...	Diameters 3, 4, 6, 8, 10, 12, 16 mm Diameter 1/8", 5/32", 3/16", 1/4", 5/16", 3/8", 1/2" Standard O.D. tubing Operating medium - Compressed air - Vacuum - Water Materials - Polyamide - Polyvinyl chloride - Perfluoralkoxyalkan - Polyethylene - Polyurethane DUO tube 2 tubes fused together.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Outside calibration, hydrolysis resistant</b>	PUN-H	Diameters 3, 4, 6, 8, 10, 12, 16 mm Standard O.D. tubing Operating medium - Compressed air - Vacuum - Water		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>




<p><b>Outside calibration for welding applications</b> <b>SPARKEKX</b></p>	<p>PUN-VO-...-C</p>	<p>Diameters 3, 4, 6, 8, 10, 12, 16 mm Diameter 1/8", 5/32", 3/16", 1/4", 5/16", 3/8", 1/2" Standard O.D. tubing Operating medium - Compressed air - Vacuum - Water Materials - Polyamide - Polyvinyl chloride - Perfluoralkoxyalkan - Polyethylene - Polyurethane DUO tube 2 tubes fused together.</p>		<p><a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a></p>
--	---------------------	---	---	--

Designation	Type	Note	Picture	
<b>Quick Star push-in fittings, standard series</b>	QS-...	<p>Connection R 1/8, R 1/4, R 1/2, R 3/8, G 1/8, G 1/4, G 1/2, G 3/8                      diameter 4, 6, 8, 10, 12, 16 mm                      cartridge size 10, 14, 17, 18                      screw connection                      - G thread with sealing ring                      - R thread PTFE-coated push-in fittings                      suitable for a vacuum                      push-in fittings                      push-in bulkhead connectors                      push-in caps                      push-in fittings with push-in sleeves                      blanking plugs                      multiple distributor                      push-in bulkhead fittings.</p>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Quick Star QS-F, metal</b>	QS-...	<p>Connection M5, M7, G 1/8, G 1/4, G 3/8, G 1/2                      diameter 4, 6, 8, 10, 12 mm                      screw connection                      - metric thread with a sealing ring                      - G thread with sealing ring                      suitable for vacuum                      push in fittings                      push-in bulkhead fittings                      connectors with push-in sleeves                      push-in bulkhead fittings.</p>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Non-return valves, piloted</b>	HGL-...	<p>Connection M5, G 1/8, G 1/4, G 3/8, G 1/2                      Flow 108 ... 1 540 l/min                      Shut-off valve                      - Pneumatic piloted non-return valve.</p>		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>

Designation	Type	Note	Picture	
<b>Ball valves</b>	QH-...	Connection G 1/4...G1 1/2 plug connector 4, 6 mm flow (rate) 148 ... 84 000 l/min on-off valve.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Silencers</b>	U-...	Connecting thread M3, M5, M7, G 1/2, G 1/4, G 1/8, G 3/8, G 3/4, G1 Barbed fitting connection Tubing I.D. 3, 4 mm Connection push-in sleeve Tubing I.D. 3, 4, 6, 8, 10 mm.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>one-way flow control valve (exhaust)</b>	GRLA-...	Connection M5, G 1/8, G 1/4, G 3/8, G 1/2, G 3/4, also available with NPT thread Flow rate 0 ... 4,320 l/min Non-return and flow control valve.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>one-way flow control valve (exhaust)</b>	GRLA-...	Connection M3, M5, G 1/8, G 1/4, G 3/8, G 1/2, G 3/4, also available with NPT thread Plug connector 3, 4, 6, 8, 10, 12 mm Flow rate 0 ... 1400 l/min Non-return and flow control valve.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>one-way flow control valve (supply air)</b>	GRLZ-...	Connection M5, G 1/8, G 1/4, also available with NPT thread Flow rate 0 ... 610 l/min Non-return and flow control valve.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>

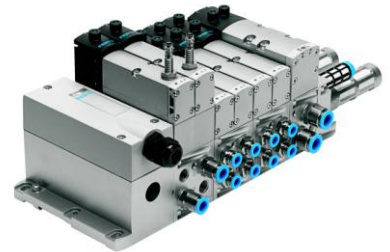
Designation	Type	Note	Picture	
<b>one-way flow control valve (supply air)</b>	GRLZ-...	Connection M3, M5, G 1/8 Plug connector 3, 4, 6, 8 mm Flow rate 0 ... 215 l/min Non-return and flow control valve.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>In-line installation</b>	GR-...	Connection M3, M5, G1/8, G1/4, G3/8, G1/2, G3/4 Push-in connector 3, 4, 6, 8 mm Flow 0 ... 3 300 l/min Non-return and flow control valve.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Quick coupling sockets KD</b>	KD4-... KD5-...	Connection M3, M5, G 1/8, G 1/4, G 3/8, G 1/2 Diameter 2, 3, 4, 6, 9, 13 mm Threaded connection - Metric thread with sealing ring - G thread with sealing ring Shut-off on one side Shut-off on both sides Safety coupling to ISO 4414.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Coupling plug KS</b>	KS4-... KS5-...	Connection M3, M5, G 1/8, G 1/4, G 3/8, G 1/2 Diameter 2, 3, 4, 6, 9, 13 mm Threaded connection - Metric thread with sealing ring - G thread with sealing ring Shut-off on one side Shut-off on both sides Safety coupling to ISO 4414.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Proportional-pressure regulator</b>	MPPE-...	Connection G1/8, G1/4, G1/2 Flow rate 0 ... 8,000 l/min Pressure regulating valves External actual value sensor can be connected Setpoint module available as accessory.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>

Designation	Type	Note	Picture	
<b>Vacuum pressure sensor</b>	SDE1-...	Pressure sensor Vacuum sensor Differential pressure measurement LCD display Optimised operation Optimised display Adjustable switching point.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Vacuum pressure sensor</b>	SDE3-...	Pressure sensor vacuum sensor differential pressure measurement display optimised illuminated LCD		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Vacuum switch</b>	SDE5-...	Pressure -1 ... +10 bar Voltage 15 ... 30 V DC PNP Pressure switches Vacuum switches Switching status display Push-in connection, pneumatic Freely programmable Adjustable switching point.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Suction grippers</b>	ESG-...	Suction cup size diameter 2 to 200 mm, 4x10 to 30x90 mm Connection - Male thread - Female thread - Push-in connector - Barbed connector Round suction cup - Standard - Extra deep suction cup - Bellows, 1.5-fold - Bellows, 3.5-fold - Bell-shaped Oval suction cup Height compensator Angle compensator Filter.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>

Designation	Type	Note	Picture	
<b>Quick exhaust valves</b>	SEU-...	Connection G 1/8, G 1/4, G 3/8, G 1/2, G 3/4 Flow 300 ... 6 480 l/min Shut-off valve.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Air gap sensor</b>	SOPA-...	Air gap sensor free configurable, for contactless distance monitoring		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>rotary indexing table</b>	DHTG-...	flexible operating range from clockwise rotation / anti clockwise rotation or penular operation Standling middle part with through-hole enabled quick installation for cable and tubings		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>
<b>Non-return valves</b>	HE-...	Connection G 3/8, G 1/2, G 3/4, G1 Flow 5 200 ... 12 000 l/min Manually actuated 3/2-way valve, normally closed.		<a href="#">DocuEN</a> <a href="#">DocuDE</a> <a href="#">DocuES</a> <a href="#">DocuFR</a>

**3.0. ISO terminal for controlling presses**

Part-No: 560729



**Description**

Valve terminal with multiple connector plate/fieldbus connection as per ISO 15407-2

- Vertical stacking plus two sensor valves
- Pressurising/exhausting via linked standard VTSA valves Valve terminal, consisting of 24 V DC multi-pin plug connector with cable, a series manifold, right-hand end block, double vertical stacking and 2 VSVA plug-in valves, width 26 mm, with piston position sensing by inductive PNP proximity sensor, size M8, and plain cable end and covered manual override. The valves are pneumatically interlinked via the vertical stacking plate using two channels (port 2 is connected in parallel, port 4 inline).

Valve manifold with individual electrical connection as per ISO 15407-1

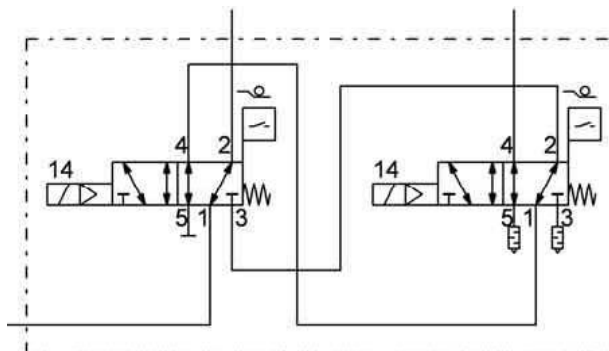
- Double connecting plate plus two sensor valves with C shape plug pattern Valve block comprising a double sub-base and two VSVA valves, width 26 mm, with piston position sensing via inductive PNP proximity sensor, size M8, and plain cable end. 24 V DC pilot valve with electrical interface, C shape, and covered manual override. The valves are pneumatically interlinked via two channels in the connecting plate (port 2 is connected in parallel, port 4 inline).

- Safety function** Reversing
- Safety function** Tamper-proof, prevention of unexpected starting up

Part no.	Type	Version
560729	VABF-D1-26-C1V2-C-T1	Vertical sub-base for two plug-in valves, size 01, for installation in VTSA

- Valve function: 5/2-way valve
- ISO size 01
- Position sensor with M8 port
- Valve width 26 mm

**Function**

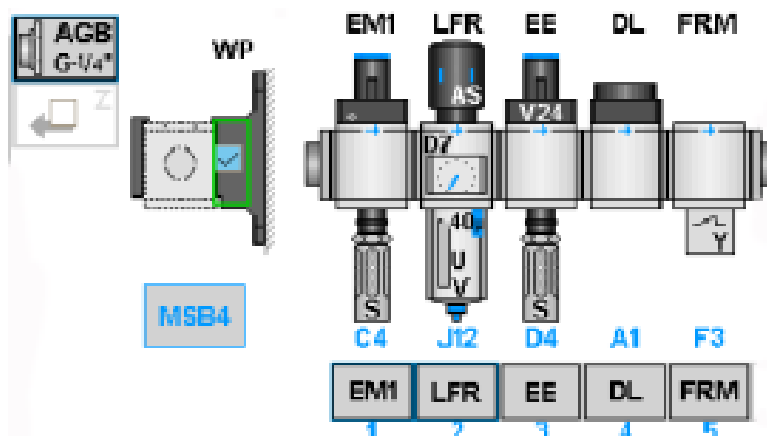


## 4.0 Standardised Service Units

### 4.1 Standard Service Unit Size MSB4

Ident-Code: MSB4-AGB:C4:J12:D4:A1:F3:WP  
 Part-No. 531029

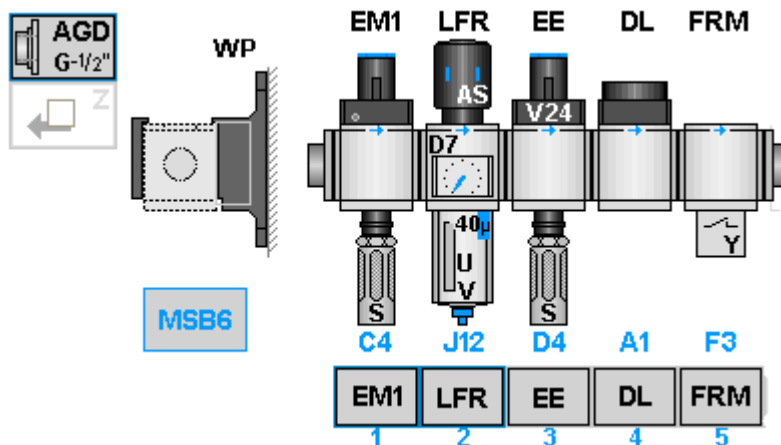
Code	Function / Funktion
MSB	Basic function / Baureihe
4	Size / Größe
AGB	Connecting plate G1/4 / Anschlussplatte G1/4
C4	On-off valve with silencer / Einschaltventil mit Schalldämpfer
J12	Filter regulator, 0.5 to 12 bar, 40 µm , metal bowl with fully automatic condensate drain, lockable rotary knob / Filterregelventil, 0,5 ... 12 bar, 40 µm, Metallschale mit vollautomatischem Kondensatablaß, abschließbarer Drehknopf
D4	On-off valve, electrical, 24V, with silencer, 18 bar / Einschaltventil, elektrisch, 24V, mit Schalldämpfer, 18 bar
A1	Soft-start valve, pneumatic / Druckaufbauventil pneumatisch
F3	Branching module with pressure switch without display / Abzweigmodul mit Druckschalter ohne Anzeige
WP	Mounting bracket / Befestigungswinkel



## 4.2 Standard Service Unit Size MSB6

Ident-Code : MSB6-AGD:C4:J12:D4:A1:F3:WP  
 Part-No. 531030

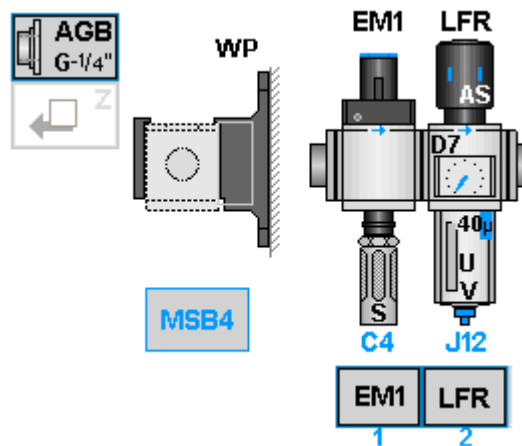
Code	Function / Funktion
MSB	Basic function / Baureihe
6	Size / Größe
AGD	Connecting plate G1/2 / Anschlussplatte G1/2
C4	On-off valve with silencer / Einschaltventil mit Schalldämpfer
J12	Filter regulator, 0.5 to 12 bar, 40 µm , metal bowl with fully automatic condensate drain, lockable rotary knob / Filterregelventil, 0,5 ... 12 bar, 40 µm, Metallschale mit vollautomatischem Kondensatablaß, abschließbarer Drehknopf
D4	On-off valve, electrical, 24V, with silencer, 18 bar / Einschaltventil, elektrisch, 24V, mit Schalldämpfer, 18 bar
A1	Soft-start valve, pneumatic / Druckaufbauventil pneumatisch
F3	Branching module with pressure switch without display / Abzweigmodul mit Druckschalter ohne Anzeige
WP	Mounting bracket / Befestigungswinkel



**4.3 “Hand-work place” Unit Size MSB4**

Ident-Code : MSB4-AGB:C4:J12:WP  
 Part-No. 531029

Code	Function / Funktion
MSB	Basic function / Baureihe
4	Size / Größe
AGB	Connecting plate G1/4 / Anschlussplatte G1/4
C4	On-off valve with silencer / Einschaltventil mit Schalldämpfer
J12	Filter regulator, 0.5 to 12 bar, 40 µm , metal bowl with fully automatic condensate drain, lockable rotary knob / Filterregelventil, 0,5 ... 12 bar, 40 µm, Metallschale mit vollautomatischem Kondensatablaß, abschließbarer Drehknopf
WP	Mounting bracket / Befestigungswinkel



**4.4 “Hand-work place” Unit Size MSB6**

Ident-Code : MSB6-AGD:C4:J12:WP  
 Part-No. 531030

Code	Function / Funktion
MSB	Basic function / Baureihe
6	Size / Größe
AGD	Connecting plate G1/2 / Anschlussplatte G1/2
C4	On-off valve with silencer / Einschaltventil mit Schalldämpfer
J12	Filter regulator, 0.5 to 12 bar, 40 µm , metal bowl with fully automatic condensate drain, lockable rotary knob / Filterregelventil, 0,5 ... 12 bar, 40 µm, Metallschale mit vollautomatischem Kondensatablaß, abschließbarer Drehknopf
WP	Mounting bracket / Befestigungswinkel

