



Key features

At a glance

The balancer kit moves loads of up to 999 kg effortlessly at the touch of a finger. The controller automatically detects the weight of the load and sets the balancing force itself. It also takes into account any weight changes in the suspended state. This is helpful in keeping production processes really flexible.

The components of the balancer kit are suitable for installation in all common kinematic systems such as lifting columns or parallel kinematic systems.

Two packages can be selected:

Basic package

- Single-channel speed monitoring
- Safety: Performance Level b achievable
- Safely limited speed (SLS)
- Safe stopping and closing (SSC)

Package with safety relay unit

- Dual-channel speed monitoring
- Safety: Performance Level d achievable
- Safely limited speed (SLS)
- Safe stopping and closing (SSC)

Wide range of applications

For applications in all industry segments where heavy loads need to be moved in defined, repeated sequences. Areas of application:

- Loading and unloading
- Stacking and destacking
- Rotating, swivelling, tilting and emptying containers
- Assembly in production lines
- Loading goods







- Load-controlled mode: moving the load using the control element or optionally directly at the workpiece. The force for moving the workpiece, without using the control element, depends on the friction in the mechanism. Low friction in the mechanism (e.g. in the guide) results in a low actuating force.
- Position-hold mode: moving the load using the control element only. The load is held in this position, even if it changes. In this case, the force of the workpiece is independent of the friction in the mechanism. This is compensated by the control element.

Key features

Modular application software for configuration, operation and visualisation

- The application is commissioned via a web interface, which is also used for configuring the application-specific functions
- No programming skills are required to use the pre-installed, ready-to-use software
- The program sequence itself is controlled by variables and digital control inputs, e.g. by the higher-order controller
- All process data can be interchanged individually with the host system

	en 😩						FEST
Commissioning	Program Op	eration D	iagnosis				
rt Config.	Standard input configurati	on					System state
put Config.					Pin Input	Configuration	Controller Ready
city Configuration			~~~~~	_	X2.0 Operation enable	Level activated	Operating mode:
toring Configuration	0123456	1012341	1 1 2 3 4 5 4 7 24 °	_	X2.1 Handle active	Level activated	Ready
	1000000	01000000	00000000000		X2.2 Error Safety	Level activated	Real time values
					X2.3 Reference Switch	Edge activated	The BELLEN CONTRACT
	X2 Digital In	put X3 Digital Input	X4 Digital Output X5		X2.4 Reset	Edge activated	
					X2.5 Switch Ctrl-Mode	Level activated	Actual pressure 1.87 Bar (rel)
					X2.6 Overspeed Safety	Level activated	 1.87 sar (rei)
					X2.7 Reserved		Actual position
	X3.0 System enable Level activated					Level activated	"97.8 mm
	Custom input configuratio	n					Actual mass
	■ Input 1 (X3.1)	linverted	Input 2 (X3.2)	Inverted	 Input 3 (X3.3) 	Inverted	117.0 kg
			No Function		No Function		
	No Function		No Puncoon				
		tions.			Select configuration to st	yow settings.	State values
	No Function Select configuration to show se	ttings.	Select configuration to show settings	L.	Select configuration to st	row settings.	Operation enabled/
		ttings.		ι.	Select configuration to st	row settings.	Operation enabled/
		ttings.		L.	Select configuration to st	row settings.	Operation enabled/ Standstill Mode System enabled/
	Select configuration to show se		Select configuration to show settings		Select configuration to st	now settings.	Operation enabled/ Standstill Mode System enabled/ Emergency Stop Position-Hold mode
	Select configuration to show se a Input 4 (X3.4) No function	inverted	Select configuration to show settings a input 5 (X3.5) No Function	Inverted	Select configuration to st	iow settings.	Operation enabled/ Standstill Mode System enabled/ Emergency Stop
	Select configuration to show se Input 4 (X3.4)	inverted	Select configuration to show settings	Inverted		iow settings. Discard changes	Operation enabled/ Standstill Mode System enabled/ Emergency Stop Position-Hold mode

The following software functions are	available		
Commissioning	Configuration	Operation	Diagnostics
 Configuring the hardware Teaching end positions Adjusting control parameters Testing the shut-off valves 	Configuration of user-defined inputs and outputs with: • Prepositioning • Speed selection • Sensing of load and position ranges • Display of operating mode	Creating trace data such as: • Pressure • Position • Mass • Speed	 Diagnostics of system components Display of error messages Read from error memory
Software functions			
Number of configurable inputs	5		

Number of configurable inputs	5
Number of configurable outputs	3
Number of saved errors	Max. 40
Configuration export	Via FTP
Interface to host system	Modbus TCP

System components

Included in the scope of delivery of the balancer kit

System component

Standards-based cylinder DSBG



- Standards-based cylinder, provides the force for moving the payload
- Piston Ø 50 ... 125 mm: Stroke range 100 ... 1990 mm
- Piston Ø 160 and 200 mm: Stroke range 100 ... 1000 mm
- Theoretical force at 6 bar: Advancing: 1178 ... 18850 N Retracting: 990 ... 18096 N

· For recording position and speed

Description

• Up to piston diameter 125 mm and stroke < 1000 mm: with feature DSBG-...-L1 (low friction for balancer applications)

For applications with Performance Level b: one measuring head (single-channel)
For applications with Performance Level d: two measuring heads (dual-channel)

Displacement encoder DNCI-32

- Valve unit VPCB



- Valve block comprising:
 - Balancer valve VPCB 3/3-way proportional pressure regulator with special pressure control and shut-off valve actuation as well as two shut-off valves designed as 2/2-way valves
 - Diagnostic display for fast error detection
 - For applications with Performance Level d: with switching position sensing for the shut-off valves

Balancer controller CECC-D-BA



 Balancer controller for actuating and locking the balancer with preinstalled software (browser-based web visualisation for commissioning and diagnostics)

Sensor interface CASB



· Converts the signal from the displacement encoder into a readable signal for the safety relay unit

Control element VAOH



- Ergonomically designed handle for operating the balancer
- The movement of the handle in axial direction produces a positive or negative pressure in the chambers. These differences in pressure are used to control the balancer. Springs in the respective chambers reset the balancer to the centre position

Safety relay unit PNOZS30C24-240VACDC



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• Device for speed monitoring. In the event of an error, the compressed air in the cylinder is shut off in two channels and the system is braked. The same happens in the event of a power failure

System components

System components			
Can be ordered as accessories			
System component Service unit		Connection kit VABS	
Kervice unit Comprising: • Manual on/off valve • Filter regulator • Wall mounting plate • Pressure gauge • Lockable regulator head • Plastic bowl with plastic bowl guard • Manual condensate drain • Flow direction from left to right Max. output pressure: 12 bar Grade of filtration: 5 µm			For external pressure measurement. When using this, the sub-base at the valve unit must be replaced (see operating instructions)
Foot mounting for standards-based	cylinder DSBG	Swivel flange for standards-base	ed cylinder DSBG
	→ Page 21		→ Page 22
Swivel flange for standards-based cy	ylinder DSBG	Rod clevis for standards-based	cylinder DSBG
	→ Page23		→ Page 23
Foot mounting for displacement enc	oder DNCI-32	Swivel flange for displacement e	encoder DNCI-32
	→ Page 21		→ Page 22
Swivel flange for displacement enco	der DNCI-32		
	→ Page 23		
Self-aligning rod coupler for displace	ement encoder DNCI-32	Rod eye for displacement encod	er DNCI-32
	→ Page 23	000	→ Page 23
Inscription labels for sensor interfac	e CASB		
	→ Page 23		

System components

Assembly variants

When configuring the balancer kit, there is a choice of three different mounting solutions for the components. Depending on the selection, the individual components are mounted in a control cabinet or on a mounting plate, or supplied as individual components.

Via control cabinet

In this case, the following components are installed

- in the control cabinet:
- Main switch
- Power supply unit
- Balancer controller
- Terminals

Optionally with safety relay unit

Via mounting plate

In this case, the following components are mounted on a mounting plate:

- Power supply unit
- · Balancer controller
- Terminals

Optionally with safety relay unit

Individual solution

In this case, the individual parts are packed and supplied loose.



Scope of delivery of balancer kit

Scope of delivery of balancer kit			
Designation	Туре	Basic package	Package with safety relay unit
Standards-based cylinder	DSBG		•
Displacement encoder	DNCI-32	_	
	(with one measuring head)	•	_
	DNCI-32		-
	(with two measuring heads)	_	•
Valve unit	VPCB-6-L-8-G38-10-F-D3-T22		-
	VPCB-6-L-8-G38-10-F-D3-T22-M	-	•
Control element	VAOH-P15-H13	•	•
Plug socket with cable	KME-1-24DC-5-LED	•	•
Connecting cable	NEBC-M12G5-ES-5-LE5-CO	•	•
Balancer controller	CECC-D-BA	•	•
Plug	NECC-L2G24-C1	•	•
Plug	NECC-S1G9-C2-M	•	
Proximity switch	SMT-8M-A-PS-24V-E-0.3-M8D	•	•
Sensor interface	CASB-MT-D3-R7	-	•
Connecting cables	KM12-8GD8GS-2-PU	-	•
Connecting cable	NEBA-M12G5-U-5-N-LE4	-	•
Plug socket with cable	NEBU-M12W8-K-5-N-LE8	-	•
Safety relay unit	PNOZS30C24-240VACDC	-	





Key features

Ordering via the configurator

It is very easy to configure and order a wide range of balancer kits using the configurator.

The "Configuration", "Preassembly" and "Accessories" tabs are used to select the combinations and display them with the correct configuration. CAD files and ePLAN macros are included.

	Zubehör Übersicht	Basiskonfiguration Arbeitszy/ünder / Wegmess- sytem	•	Zubehör
I für SLS/SSC?	In den Warenkorb legen * Bestellicede:	Hash des Anbellszyfinders (ann) Bitte Wenn wählen	~	1 Bestellcode:
	Login für Preis- und Versandinformation	Arbeitszylinder DSBG im Bausatz enthalten? Nein	~	Login für Preis- und
	Dosenshore Delementation CAD/FFAM			Datenblatt Dokumentation CAD/EPLAN

Ordering data – Product options

Configurable product This product and all its product options can be ordered using the configurator.

The configurator can be found under	Part no.	Туре
Products on the DVD or at	8087218	YHBP
→ www.festo.com/catalogue/		

Optional: Ordering the control cabinet

The following part numbers can also be used to order the control cabinet/ mounting plate separately.

Ordering data		
Description	Part no.	Туре
Control cabinet with safety relay unit (Performance Level d)	8118454	CMCB-D1-CC-S1
Mounting plate with safety relay unit (Performance Level d)	8118455	CMCB-D1-C-S1
Control cabinet without safety relay unit (Performance Level b)	8118456	CMCB-D1-CC-S0
Mounting plate without safety relay unit (Performance Level b)	8118457	CMCB-D1-C-S0

Datasheet



General technical data

Stroke range		
For piston Ø 50 125 mm	[mm]	100 1990
For piston Ø 160 and 200 mm	[mm]	1001000
Piston Ø	[mm]	50 200
Theoretical force at 6 bar		
Advancing	[N]	1178 18850
Retracting	[N]	990 18096
Load ¹⁾ at ratio i=1:1	[kg]	25 999
Transmission ratio of kinematics		
For lifting columns		1:1
For parallel kinematic systems		1:1 1:5
Weight		
Overall weight	[g]	4800 60500
Weight of standards-based cylinder	[g]	→ www.festo.com/dsbg
Weight of displacement encoder	[g]	→ www.festo.com/dnci
Valve unit	[g]	1550
Balancer controller	[g]	200
Control element	[g]	1350
Sensor interface	[g]	300

1) Load = kinematic system + gripper tool + workpiece

Electrical data

Electrical data		
Operating voltage range	[V DC]	21.6 26.4
Residual ripple	[%]	5
Nominal operating voltage	[V DC]	24
Current consumption with load-free outputs	[A]	2
Duty cycle	[%]	100
Max. electrical power consumption	[W]	48
Reverse polarity protection		For operating voltage

Datasheet

Operating and environmental conditions

Ambient temperature	
With Performance Level b [°C]	0+40
With Performance Level d [°C]	0+50
Storage temperature [°C]	-20 +70
Degree of protection	
For valve unit VPCB	IP65
For balancer controller CECC-D-BA	IP20
Duty cycle [%]	100
Certification	RCM
CE marking (see declaration of conformity)	To EU EMC Directive ¹⁾
Note on materials	RoHS-compliant
	Contains paint-wetting impairment substances

1) For information about the area of use, see the EC declaration of conformity at: www.festo.com/sp → Certificates.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

Mass m as a function of transmission ratio i and cylinder diameter $\ensuremath{\varnothing}$

Minimum mass



YHBP-50



 YHBP-80
 YHBP-100
 YHBP-125

- ····· YHBP-160
- ----- YHBP-200

Maximum mass





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Datasheet

Technical data – Displacement encoder DNCI-32

1 CM a de la come

DNCI-32-...: with one measuring head DNCI-32-...-BA: with two measuring heads

Mechanical data

	Encoder, contactless and relative measurement		
[mm]	100 1990		
[mm]	0.01		
[mm]	≤±0.5		
	Analogue		
[mm]	≤±0.08		
[mm]	≤±0.09		
[m/s]	1.5		
[kA/m]	10		
[m]	1.5		
	Cable with 8-pin plug, round design, M12		
	With accessories		
	Any		
	Anodised aluminium		
	Die-cast aluminium		
	TPE-U		
	Polyacetal		
	RoHS-compliant		
	[mm] [mm] [mm] [mm] [m/s] [kA/m]		

1) Due to its design, the displacement encoder is 10 mm longer than the selected cylinder.

2) At a distance of 100 mm

3) The cable length must not be changed.

Operating and environmental conditions

· ·		
Ambient temperature	[°C]	-20 +80
Vibration resistance to DIN/IEC 68, Part 2-6		Severity level 2
Shock resistance to DIN/IEC 68, Part 2-82		Severity level 2

Datasheet

Technical data – Valve unit VPCB

Without switching position display





With switching position display

Mechanical data

Pneumatic connection		
1, 2, 3		G3/8
Н		G1/8
Standard nominal flow rate [l/r	nin]	725
Nominal size [mi	n]	6
Valve function		3-way proportional flow control valve
Design		Piston spool with integrated pressure sensors
Sealing principle		Hard
Actuation type		Electrical
Reset method		Magnetic spring
Type of control		Direct
Direction of flow		Not reversible
Short circuit current rating		Yes
Reverse polarity protection		For operating voltage
Diagnostic function		Display via LED
Typical lowering speed ¹⁾ [mi	n/s]	15
Fieldbus interface		
Protocol		CAN bus with Festo protocol
Connection technology		M12x1, A-coded to EN 61076-2-101
Max. CAN bus cable length [m]		30

1) When the manual exhaust is operated, with piston diameter 80 mm, transmission ratio 1:1 and load of 100 kg.

Electrical data

Electrical data		
Operating voltage range	[V DC]	21.6 26.4
Nominal operating voltage	[V DC]	24
Duty cycle	[%]	100
Proportional directional control valve		
Residual ripple	[%]	5
Current consumption (short term)	[A]	1.2
Current consumption (typical)	[mA]	120
Power consumption	[W]	33.5
Reverse polarity protection		For operating voltage
Shut-off valve		
Current consumption	[mA]	62
Power consumption	[W]	1.5

Technical data – Valve unit VPCB Without switching position display





With switching position display

Operating and environmental conditions

Operating pressure	[bar]	48	
Operating medium		Compressed air to ISO 8573-1:2010 [6:4:4]	
Note on the operating/pilot medium		Lubricated operation not possible	
		Max. particle size 5 µm	
Vibration resistance		Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6	
Shock resistance		Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27	
Materials			
Housing		Anodised wrought aluminium alloy	
Seals		FPM, HNBR, NBR	
CE marking (see declaration of conformity)		To EU EMC Directive	
		To EU RoHS Directive	
UKCA marking (see declaration of conformity)		To UK instructions for EMC	
		To UK RoHS instructions	
PWIS conformity		VDMA24364 zone III	
Note on materials		RoHS-compliant	

Technical data – Control element VAOH



Mechanical data

Piston Ø	[mm]	50
Stroke	[mm]	20
Pneumatic connection		G1/8
Max. transverse load	[N]	100
Position sensing		Via proximity switch
Type of mounting		Via through-hole
		With female thread
		With accessories
Mounting position		Any
Mounting position		

Operating and environmental conditions

Operating pressure [bar]	≤1
Materials	
Cylinder barrel, end cap	Anodised aluminium
Piston rod	Steel
Note on materials	RoHS-compliant
	Contains paint-wetting impairment substances

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Mounting options

Direct mounting on the bearing 1 сар

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Through-hole mounting

2



Direct mounting on the end cap

Technical data – Control cabinet/mounting plate CMCB



Mechanical data

Mechanical data							
Design		Control cabinet	Mounting plate	Control cabinet	Mounting plate		
		Without safety relay unit		With safety relay unit			
Performance Level (PL)		Category B, Performance	e Level b	Category 3, Performance	Level d		
Nominal operating voltage AC	[V]	230					
Mains types of system earthing		TT/TN/IT					
Mains frequency	[Hz]	50 60					
Max. current consumption	[A]	1.1					
Current consumption of secondary	[A]	5					
circuit							
Max. power supply	[A]	6					
Fuse protection (short circuit)		Internal electronic fuse					
Electrical connection		Spring-loaded terminal					
		Push-in					
Application information		The product is suitable for industrial purposes only. In residential areas, measures for radio interference suppression may have to be					
		taken.					
Product weight	[kg]	15	4.2	15.3	4.5		
Dimensions (WxLxH)	[mm]	220x350x440	135x254x375	220x350x440	135x254x375		

Operating and environmental conditions

Operating and environmental condition	ons	
Ambient temperature	[°C]	5 - 40
Storage temperature	[°C]	-20-60
Ambient conditions		Interior
Relative humidity		Max. 50% at 40°C
Nominal altitude of use	[m NN]	1000
Pollution degree		2
Degree of protection		IP54
CE marking		To EU EMC Directive
(see declaration of conformity)		To EU Low Voltage Directive
Protection against direct and indirect		PELV
contact		Earthing of all exposed conductive parts
Note on materials		RoHS-compliant
		Contains paint-wetting impairment substances

Datasheet

Pin allocation – Balancer controller CECC-D-BA



I/O interface for communicating with a higher-order PLC or the control panel

Pin	Connection	Function
X2.0	Inputs	Operation enable
X2.1		Handle active
X2.2		Speed monitor error input
X2.3		Reference sensor
X2.4		Reset error
X2.5		Change operating mode
X2.6		Speed monitor signal input
X2.7		Not assigned
X3.0		System enable (emergency off)
X3.1 X3.5		User-configured inputs
X4.0	Outputs	Operation enabled
X4.1		Freely configurable
X4.2		Shut-off valve 1
X4.3		Shut-off valve 2
X4.4		Error
X4.5		Freely configurable
X4.6		Freely configurable
X4.7		System active and ready

Dimensions

Standards-based cylinder DSBG-80 ... 125



Download CAD data → www.festo.com

10.4

12.75

12.5

13.5

13

4_0.2

4_0.2

4_0.2

4_0.2

6-0.3

11.5

15

15.7

19.2

20.5

35.6

35.9

45.4

49.3

64.1

141.8

157.1

173.6

187.5

225

17

17

22

22

27

24

24

30

30

41

50

63

80

100

125

M8

M8

M10

M10

M12

46.5

56.5

72

89

110

5.5

6.25

8

10

8

8

8

6

6

8

Datasheet

Dimensions

Download CAD data → <u>www.festo.com</u>

Standards-based cylinder DSBG-160 ... 200



	· -				-	-		0,0		
200	72	75	24	2	5	2	30	G3/4	46.9	46.7
ø		(K	L2	L8	MN		PL	RT	TG	U1
	DSBG									
[mm]		-M							±1.1	
160	M36x2	M36	60	180±1	40		31	M16	140	12
200	M36x2	M36	70	180±1.2	40		30	M16	175	12
ø	U2	VA	VD	W1	l wh		ZJ	=©1	=©2	=©3
	02		VD				2)	-91	-62	~~~
[mm]		-1					±1			
160	20	6	7	5	80±1	.3	260	36	55	24 _{h13}
200	20	6	6.5	5	95±1	.4	275	36	55	24 _{h13}

Datasheet

Dimensions

Displacement encoder with one measuring head DNCI-32-...





[2] Hole for securing the earthing for self-tapping M4 screw according to DIN 7500

Download CAD data → <u>www.festo.com</u>

- [3] Sensor slot for proximity switch SME/SMT-8
- [4] Magnetic measuring tape
- = plus stroke length
- ++ = plus 2x stroke length

Туре	AM	B Ø d11	BG	D7 Ø	E		EE		G	KK	L1	L2	L9
DNCI-32	22	30	16	3.7	45	5 (61/8		28	M10x1.25	18	94	22.5
Туре	MM Ø f8	PL	RT	T1	TG	VA	VI	D	WH	ZJ	=©1	<i>=</i> ©2	=©3
DNCI-32	12	15.6	M6	8	32.5	4	10	0	26	120	10	16	6

Displacement encoder with two measuring heads DNCI-32-...



Туре	L6	ZJ+
DNCI-32	45	165

NEW

Datasheet

Dimensions

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Datasheet

Dimensions

Control element VAOH







Туре	B Ø	BG	D1 Ø	E	EE	J1	J2	L1
VAOH	51	27	65	65.5	G1/8	8	10	271.5
Туре	PL1	PL2	RT	T1	TG	VD	ZA	ZB ¹⁾
VAOH	8.2	7	M8	8	46.5	14.5	102	142

1) +/- 10 mm stroke

NEW

Download CAD data \rightarrow <u>www.festo.com</u>

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NEW

Accessories

Foot mounting HNC

Material: HNC: Galvanised steel Free of copper and PTFE





Dimensions and ordering data

Dimension	Dimensions and ordering data												
For Ø	AB	AH	AO	AT	AU	SA	TR	US	XA	XS	Weight	Part no.	Туре
	Ø												
[mm]											[g]		
32	7	32	6.5	4	24	142	32	45	144	46	144	174369	HNC-32
50	10	45	9.5	5	32	170	45	64	174	63	353	174371	HNC-50
63	10	50	12.5	5	32	185	50	75	189	63	436	174372	HNC-63
80	12	63	15	6	41	210	63	93	215	81	829	174373	HNC-80
100	14.5	71	17.5	6	41	220	75	110	230	86	1009	174374	HNC-100
125	16.5	90	22	8	45	250	90	131	270	102	1902	174375	HNC-125

Foot mounting HNG

Material: Galvanised steel Free of copper and PTFE

.







Dimensions	Dimensions and ordering data												
For Ø	AB	AH	AO	AT	AU	SA	TR	US	XA	XS	Weight	Part no.	Туре
	ø												
[mm]											[g]		
160	18.5	115	20	10	60	300	115	169	320	130	3931	34476	HNG-160
200	24	135	30	12	70	320	135	214	345	153	6896	34477	HNG-200

2024/10

Accessories

Swivel flange SNCB

Material: Die-cast aluminium Free of copper and PTFE RoHS-compliant





Dimensions and ordering data

Dimension												
For Ø	CB	E	EK	FL	L	MR	TG	UB	XC	Weight	Part no.	Туре
			ø									
[mm]	H14	H9/e8	e8	±0.2		-0.5		h14		[g]		
50	32	64-0.6	12	27	16	12	46.5	60	169	232	174392	SNCB-50
63	40	75-0.6	16	32	21	16	56.5	70	189	375	174393	SNCB-63
80	50	93-0.8	16	36	22	16	72	90	210	636	174394	SNCB-80
100	60	110+0.3/-0.8	20	41	27	20	89	110	230	1035	174395	SNCB-100
125	70	131_0.8	25	50	30	25	110	130	275	1860	174396	SNCB-125

Swivel flange SNGB

Material: Ø160: Die-cast aluminium Ø200: Galvanised steel Free of copper and PTFE RoHS-compliant





+ = plus stroke length

Dimensions	Dimensions and ordering data											
For Ø	CB	EK	FL	L	MR	UB	XC	Weight	Part no.	Туре		
	ø	ø										
[mm]	H14	E10	±0.2			h14		[g]				
160	90	30	55	37	30	170	315	3445	34547	SNGB-160		
200	90	30	60	40	25	170	335	10020	562455	SNGB-200-B		

Swivel flange SNC

Material: Die-cast aluminium Free of copper and PTFE RoHS-compliant





= plus stroke length

[1] The pivot pin is secured against rotation with a spring pin.

Weight

[g]

93

Part no.

174383

Туре

SNC-32

Dimensions and ordering data ΕK FL CG СР SR TG XC For Ø Ε Т Ø [mm] H14 h14 Н9 ±0.2 10 32 14 34 45+0.2/-0.5 22 13 10 32.5 142

1

Accessories

Ordering data			
	Description	Part no.	Туре
Service unit			
(Fr)	Comprising:	542280	MSB6-1/2:C3J3-WP
	Manual on/off valve		
	Filter regulator		
	Wall mounting plate		
	Pressure gauge		
	 Lockable regulator head Plastic bowl with plastic bowl guard 		
	Manual condensate drain		
	Flow direction from left to right		
	Max. output pressure: 12 bar		
	Grade of filtration: 5 µm		
Connection kit VABS	For external process manufacturement When using this the cub base at the value with much be	9070053	
	For external pressure measurement. When using this, the sub-base at the valve unit must be replaced (see operating instructions)	8070953	VABS-P15-S-B6
	ויביומניכים נשכים טיפיומנוווא וושנותנוטווש		
leg≫∕			
Swivel flange for standards-	based cylinder DSBG		
10	For piston Ø 50	174406	SNCL-50
	For piston Ø 63	174407	SNCL-63
	For piston Ø 80	174408	SNCL-80
	For piston Ø 100	174409	SNCL-100
G	For piston Ø 125	174410	SNCL-125
	For piston Ø 160	151534	SNGL-160
	For piston Ø 200	151535	SNGL-200
		191999	5.02.200
Rod clevis for standards-bas			
	For piston Ø 50, 63	6145	SG-M16x1.5
	For piston Ø 80, 100	6147	SG-M20x1.5
	For piston Ø 125	14987	SG-M27x2-B
	For piston Ø 160, 200	9581	SG-M36x2
Swivel flange for displaceme		47/207	chicc pp
	For piston Ø 32	174397	SNCS-32
J/9<2]]			
Self-aligning rod coupler for	displacement encoder DNCI-32		
	For piston Ø 32	2305778	CRFK-M10x1.25
1 Steller			
Rod eye for displacement en		0044	555 MAR. 4 27
	For piston Ø 32	9261	SGS-M10x1.25
-	interfere CACD		
Inscription labels for sensor		18576	IBS-6x10
- Alion		10,70	100 0410
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