

Приводы и системы управления

Технические характеристики

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5.13 Special fittings and parts

Специальная арматура и детали, Spezialarmaturen und Teile
Speciální armatury a díly



Dimensions • Размер • Baumaße • Rozměry

ø D ø B ø holes

DN

Tab for 5318 B			Pressure	Flow rate	Action Radius	Pressure	Flow rate	Action Radius	
mm	mm	mm	bar	m³/hod.	m	bar	m³/hod.	m	
28	12,2	1,3	1	1,863	0,615	2	2,635	1,231	28
40	22,2	1,3	1	5,130	2,841	2	7,255	5,681	40
50	22,2	1,6	1	5,590	1,537	2	7,906	3,074	50
50	28,2	1,6	1	7,255	2,589	2	10,260	5,177	50
65	28,2	1,6	1	8,771	2,047	2	12,403	4,093	65
65	34,3	1,6	1	7,906	1,663	2	11,180	3,326	65
65	40,5	1,6	1	10,541	3,643	2	14,907	7,186	65
90	40,5	2,5	1	31,623	2,086	2	44,721	4,172	90

5318 A Mufna 5318 B Závlačka 5318 C pro navaření

Wash cap

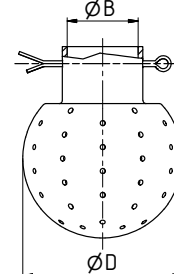
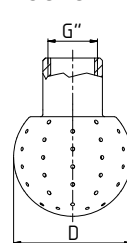
Моечная головка 360°

Waschkopf 360°, Mycí hlavice 360°

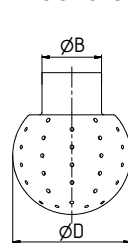
5318

5318 B

5318 A



5318 C



Dimensions • Размер • Baumaße • Rozměry

ø D ø B ø holes

DN

Tab for 5319 B			Pressure	Flow rate	Action Radius	Pressure	Flow rate	Action Radius	
mm	mm	mm	bar	m³/hod.	m	bar	m³/hod.	m	
28	12,2	1,3	1	1,863	0,615	2	2,635	1,231	28
40	22,2	1,3	1	5,130	2,841	2	7,255	5,681	40
50	22,2	1,6	1	5,590	1,537	2	7,906	3,074	50
50	28,2	1,6	1	7,255	2,589	2	10,260	5,177	50
65	28,2	1,6	1	8,771	2,047	2	12,403	4,093	65
65	34,3	1,6	1	7,906	1,663	2	11,180	3,326	65
65	40,5	1,6	1	10,541	3,643	2	14,907	7,186	65
90	40,5	2,5	1	31,623	2,086	2	44,721	4,172	90

5319 A Mufna 5319 B Závlačka 5319 C pro navaření

Wash cap

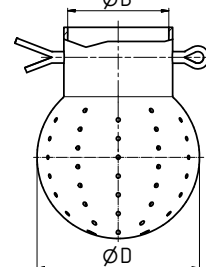
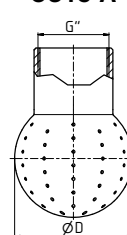
Моечная головка 270°

Waschkopf 270°, Mycí hlavice 270°

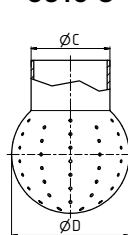
5319

5319 B

5319 A



5319 C



Dimensions • Размер • Baumaße • Rozměry

ø D ø B ø holes

DN

Tab for 5320 B			Pressure	Flow rate	Action Radius	Pressure	Flow rate	Action Radius	
mm	mm	mm	bar	m³/hod.	m	bar	m³/hod.	m	
28	12,2	1,3	1	1,208	1,006	2	1,709	2,014	28
40	22,2	1,3	1	3,029	3,875	2	4,284	7,752	40
50	22,2	1,6	1	3,471	2,318	2	4,909	4,636	50
50	28,2	1,6	1	4,714	4,275	2	6,667	8,550	50
65	28,2	1,6	1	5,345	2,991	2	7,559	5,982	65
65	34,3	1,6	1	6,455	5,366	2	5,976	3,739	65
65	40,5	1,6	1	5,872	4,44	2	8,305	8,882	65
90	40,5	2,5	1	12,91	1,375	2	18,257	2,750	90

5320 A Mufna 5320 B Závlačka 5320 C pro navaření

Wash cap

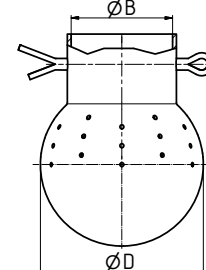
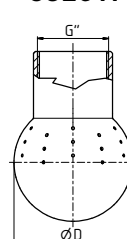
Моечная головка 120°

Waschkopf 120°, Mycí hlavice 120°

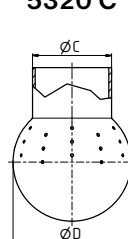
5320

5320 B

5320 A



5320 C



Dimensions • Размер • Baumaße • Rozměry

ø D ø B ø holes

DN

Tab for 5321 B			Pressure	Flow rate	Action Radius	Pressure	Flow rate	Action Radius	
mm	mm	mm	bar	m³/hod.	m	bar	m³/hod.	m	
28	12,2	1,3	1	1,208	1,006	2	1,709	2,014	28
40	22,2	1,3	1	3,029	3,875	2	4,284	7,752	40
50	22,2	1,6	1	3,471	2,318	2	4,909	4,636	50
50	28,2	1,6	1	4,714	4,275	2	6,667	8,550	50
65	28,2	1,6	1	5,345	2,991	2	7,559	5,982	65
65	34,3	1,6	1	6,455	5,366	2	5,976	3,739	65
65	40,5	1,6	1	5,872	4,44	2	8,305	8,882	65
90	40,5	2,5	1	12,91	1,375	2	18,257	2,750	90

5321 A Mufna 5321 B Závlačka 5321 C pro navaření

Wash cap

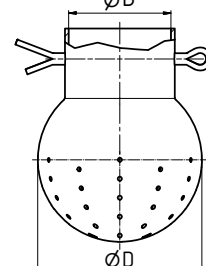
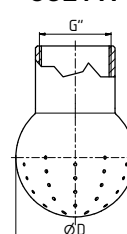
Моечная головка 180°

Waschkopf 180°, Mycí hlavice 180°

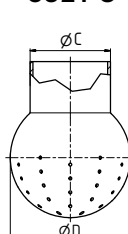
5321

5321 B

5321 A



5321 C



5.14 Special fittings and parts

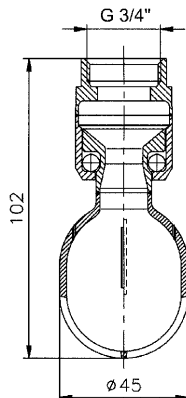
Специальная арматура и детали, Spezialarmaturen und Teile
Speciální armatury a díly

Wash cap 360° Thread G 3/4

Моечная головка 360° Резьба G 3/4
Midget Sprühkopf 360° Gewinde G 3/4
Rotační mycí hlavice 360° závit G 3/4

DN

5322 A



Rotary Cleaning ball, Ротационная моющая головка, Rotations Sprühkopf
Sani Midget, Rotační mycí hlavice

Material, Материал, Werkstoff, Materiál

Body, корпус, Gehäuse, těleso: AISI 316L (1.4404)
Marbles, шары, kugeln, kuličky: AISI 316L (1.4404) / PTFE
Other, остальной, sonstiges, ostatní: AISI 316 L

Pressure, Давление, Druck, Tlak

Working pressure, Рабочее давление, Arbeitsdruck, pracovní tlak 1 – 3 bar
Recommended pressure, Рекомендованное давление,
Empfohlener Druck, doporučený tlak 2 bar

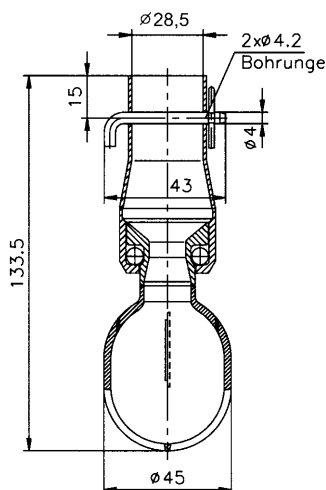
Temperature, Температура, Temperatur, Teplota

Max. operating temperature, Макс. рабочая температура,
Max. Arbeitstemperatur, Max. pracovní teplota 95° C
Max. temperature precincts, Макс. Температура окружения,
Max. Umgebungs-Temperatur, Max. dovolená teplota 140° C

Wash cap 360° Cotter key

Моечная головка 360° Разводная чека
Midget Sprühkopf 360° Klammer
Rotační mycí hlavice 360° závlačka

5322 B



Wettability surface, смачивание, Benetzungsradius, smáčení Max 3 m

Degree of purification, Очистный радиус,
Reinigungsradius Max, eff., efektivní čištění (radius) 1,4 m

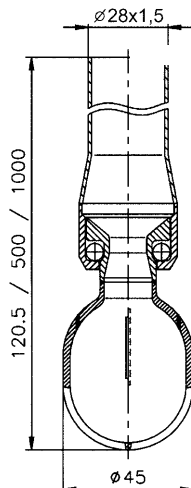
Connection, Присоединение, Verbindung, Propojení

- 1.) Thread, Резьба, Гейвинде, závit G 3/4
- 2.) Cotter key, Klammer, Разводная чека, závlačka
- 3.) For welding, для сваривания, Auf Rohr aufgeschweißt, přivaření

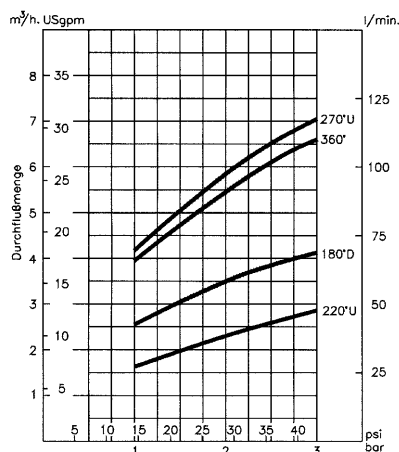
Wash cap 360° For welding

Моечная головка 360° для сваривания
Midget Sprühkopf 360° Auf Rohr aufgeschweißt
Rotační mycí hlavice 360° pro přivaření

5322 C

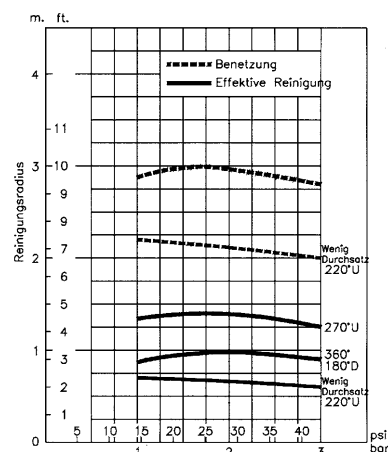


Flow
проток
Durchflußmenge
Průtok



Pressure
давление
Anschlußdruck
Tlak

Washing Radius
радиус мытья
Reinigungsradius
Mycí rádius



Pressure
давление
Anschlußdruck
Tlak

5.15 Special fittings and parts

Специальная арматура и детали, Spezialarmaturen und Teile
Speciální armatury a díly



Rotary Cleaning ball, Ротационная моющая головка, Rotations Sprühkopf
Sani Midget, Rotační mycí hlavice

Material, Материал, Werkstoff, Materiál

Body, корпус, Gehäuse, těleso: AISI 316L (1.4404)
Marbles, шары, kugeln, kuličky: AISI 316L (1.4404) / PTFE
Other, остальной, sonstiges, ostatní: AISI 316 L

Pressure, Давление, Druck, Tlak

Working pressure, Рабочее давление, Arbeitsdruck, pracovní tlak 1 – 3 bar
Recommended pressure, Рекомендованное давление,
Empfohlener Druck, doporučený tlak 2 bar

Temperature, Температура, Temperatur, Teplota

Max. operating temperature, Макс. рабочая температура,
Max. Arbeitstemperatur, Max. pracovní teplota 95° C
Max. temperature precincts, Макс. температура окружения,
Max. Umgebungs-Temperatur, Max. dovolená teplota 140° C

Wettability surface, смачивание, Benetzungsradius, smáčení Max 3 m

Degree of purification, Очистный радиус,
Reinigungsradius Max, eff., efektivní čištění (radius) 2 m

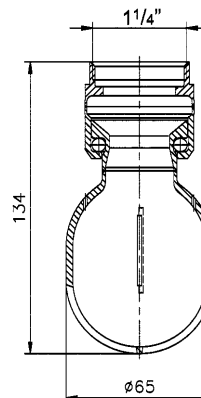
Connection, Присоединение, Verbindung, Propojení

- 1.) Thread, Резьба, Гекунде, závit G 1 1/4"
- 2.) Cotter key, Klammer, Разводная чека, závlačka
- 3.) For welding, для сваривания, Auf Rohr aufgeschweißt, přivaření

Wash cap 360° Thread 1 1/4"

Моечная головка 360° Резьба 1 1/4"
Midget Sprühkopf 360° Gewinde 1 1/4"
Rotační mycí hlavice 360° závit 1 1/4"

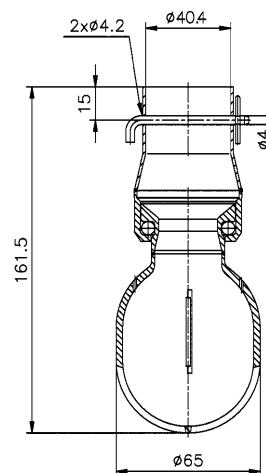
5323 A



Wash cap 360° Cotter key

Моечная головка 360° Разводная чека
Midget Sprühkopf 360° Klammer
Rotační mycí hlavice 360° závlačka

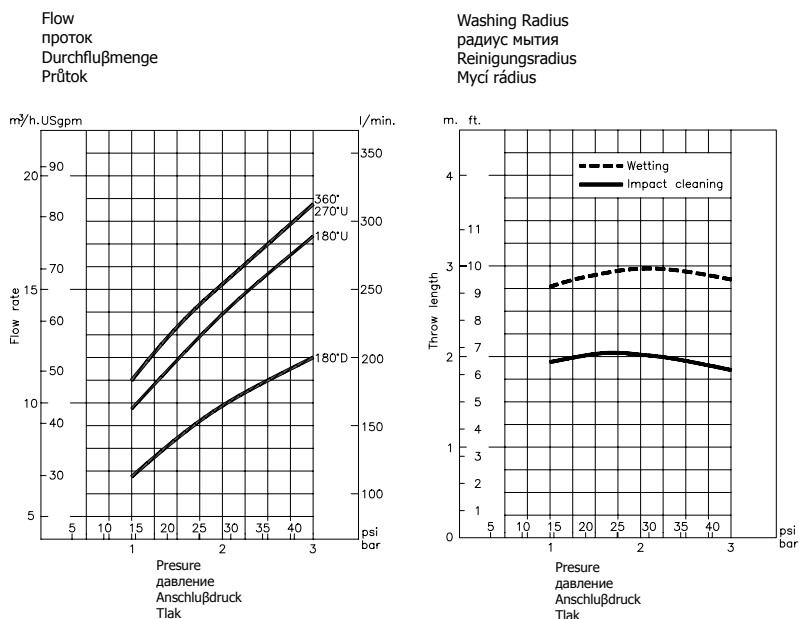
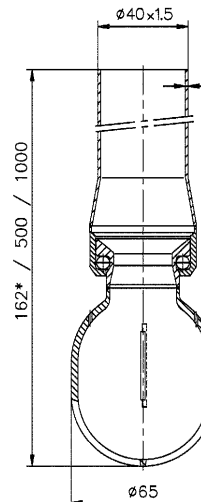
5323 B



Wash cap 360° For welding

Моечная головка 360° для сваривания
Midget Sprühkopf 360° Auf Rohr aufgeschweißt
Rotační mycí hlavice 360° pro přivaření

5323 C



[illegible]

4.28 Valves and cocks

Регулирующая арматура, Ventile und Hähne, Regulační armatury



Technical Features • Technische Daten • Technické data

Control box

Parts List

Cover	AISI 304
Switch plate	AISI 304
Micro switch	3 A 125 VAC, 30 V DC
Air manifold	AISI 304
Electrovalve	DC 24 V, 3 W
Air connection	For tube 6/4

Control box for Pneumatic Actator

Контрольная голова пневмапривода
Steuerkopf, Kontrolní hlavice pneupohonu

4470 C



Technical Features • Technische Daten • Technické data

Control box

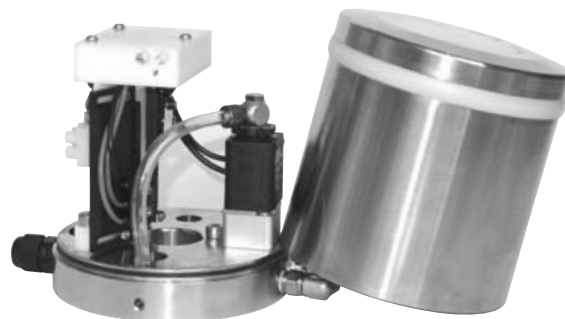
Parts List

Cover	AISI 304
Switch plate	AISI 304
Micro switch	3 A 125 VAC, 30 V DC
Air manifold	AISI 304
Electrovalve	DC 24 V, 3 W
Air connection	For tube 6/4
Double light	blue - red

Control box for Pneumatic Actator with LED

Контрольная голова пневмапривода со светодиодной
Steuerkopf mid LED, Kontrolní hlavice pneupohonu - LED

4471 C



Электропривод
Elektropohon

44590

Размеры • Rozměry



DN	A	B	C	D	E	F	R	L	Rd x s	kg
Type	Max Torque Nm	Flange ISO	Switch On-Off	Switch Positioner	24V DC	Operating Time, 90°	85-240VAC 50 - 60 HZ	1x220-23 VAC 50 - 60 HZ	Power kW	
AQ3L	30	F03/F04/F05	✓	✓	✓	15	✓	×	0,02	
AQ7L	70	F05/F07	✓	✓	✓	15	✓	×	0,02	
AQ15	150	F05/F07	✓	✓	✓	30 / 25	×	✓	0,03	

Kontrolní hlavice - pneupohon klappek

44710-C3

Размеры • Rozměry



TYPY: **44710 C3A** EKO - základní deska POM + 2x mikro spínač, LED
44710 C3B STANDARD - základní deska POM + 2x indukční spínač, LED
44710 C3C MAX - základní deska 1.4301 + 2x indukční spínač, LED

SNÍMÁNÍ POLOHY: mechanický koncový spínač: 12 - 30 V
indukční koncový spínač: 12 - 30 V

EL. MAG. VENTIL: 24 V DC

LED OSVĚTLENÍ: 3W (červená a zelená)

PŘIPOJENÍ VZDUCHU: pro hadičku 6/4

TEPLOTA PROSTŘEDÍ: -15°C až +60°C

Электропневматический позиционер
Digitální elektropneumatický pozicioner

44800

Размеры • Rozměry



The robust and compact positioner is designed to standardisation acc. to IEC 534-6 or VDI/VDE 3845 for assembly with linear and rotary actuators. In addition, the remote version with the displacement position sensor can be combined with Bürkert process control valves. The digital electropneumatic positioner SideControl can be operated with the usual current and voltage standard signals and can also be equipped with the fieldbus interface PROBUS DPV1. Additionally to the digital graphic display the valve opening is signaled by a mechanical indicator element.

Operation occurs via the external operation and display module. It consists of a backlit graphical display and a robust transparency keyboard with four keys with software driven function indication. For the user operation is very simple and clear, identical to the Bürkert positioner or process controller TopControl, Type 8692/8693.

The pilot valve system can be used equally for single and double-acting drives. It is characterised by a defined safety feature in case of failure of the electrical or pneumatic power supply and possesses an enormous air capacity range with pressure supply up to 7 bar.

DN	A	B	C	E	F	F	R	L	Rd x s	kg
Material Body Seal		Aluminium plastic-coated EPDM, NBR, FKM								
Operating voltages		24 VDC +/- 10%								
Residual ripple		max. 10%								
Setpoint setting		0/4 to 20 mA and 0 to 5/10 V								
Input resistance		0/4 to 20 mA: 180 Ω 0 to 5/10 mA: 19 kΩ								
Analogue feedback		4 - 20 mA, 0 - 20 mA 0 - 10 V, 0 - 5 V								
Binary input		galvanically isolated, 0 - 5 V = log "0", 10 - 30 V = log "1"								
Binary output		2 Outputs (optional), galvanically separated								
Current limit		100 mA, Output will be synchronised when overloaded								
Control medium		Neutral gases, air DIN ISO 8573-1								
Dust concentration		Class 5 (< 40 µm particle size)								
Particle density		Class 5 (< 10 mg/m³)								
Pressure condensation point		Class 3 (< -20°C)								
Oil concentration		Class 5 (< 25 mg/m³)								
Ambient temperature		0 to +6°C								
Pilot air ports		Threaded ports G 1/4								
Supply pressure		1,4 to 7 bar ¹⁾								
Air supply filter		Exchangeable (aperture size ~ 0,1 mm)								
Actuator system		single and double-acting to 150 l _v /min.								
Air capacity		95 l _v /min. (with 1,4 bar ²⁾) for aeration and ventilation 150 l _v /min (with 6 bar ²⁾) for aeration and ventilation Q _{Nn} = 100 lNp/min (acc. to the definition with decrease in pressure from 7 to 6 bar absolute)								
Position detection module		Potentiometer, max. angle 1800								
Stroke range valve spindle		min. 30° on the rotary shaft, depending on lever								
Installation		as required, display above or sideways								
Type of protection		IP 65/67 acc. to EN 60529 (NEMA4x in preparation)								
Power consumption		< 5 W								
Electrical connection		M12, 8-pin/4-pin; M8, 4-pin								
Multipole connection		2x M 20 x 1,5 (cable Ø 10 mm) on screw terminals (0,14 - 1,5 mm ²)								
Cable gland		1x M 12 x 1,5 (cable Ø 3 to 6,5 mm)								
Remote version										
Bus communication		Profibus DPV1 (optional)								
Inductive proximity switch		on request								
Protection class		3 acc. to VDE 0580								
Type of ignition protection		II 3 G nA II B T4 (in preparation) II 3 D tD A22 T135° (in preparation)								
Conformity		EMV2004/108/EG								
Approvals		CSA (in preparation)								

- o Compact metal housing
- o Graphic display with backlight
- o Easy start-up
- o Comprehensive range of additional software functions
- o Profibus DPV 1 (optional)
- o Assembly acc. to IEC 534-6 / VDI VDE 3845

¹⁾ The supply pressure has to be 0,5 - 1 bar above the minimum required pilot pressure for the valve actuator

²⁾ Pressure specifications: Overpressure with respect to atmospheric pressure

Электропневматический позиционер
Digitální elektropneumatický pozicioner

44801
Размеры • Rozměry

DN	A	B	C	E	F	F	R	L	Rd x s	kg
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The compact positioner Type 8692 is optimized for integrated mounting on the pneumatic actuators in the process valve series Type 23xx/2103 and is specially designed for the requirements of a hygienic process environment. The control air channel is integrated in the actuator without external tubings. The easy handling and the selection of additional software functions are done either on a big graphic display with backlight and keypad or over COMMUNICATOR.



The positioner registers the valve position without deterioration through a contact-free, analog position sensor. The control of single or double-acting actuators is done without internal air consumption. With integrated diagnostic functions operation conditions of the control valve can be monitored. Through status signals, valve diagnostic messages are transmitted according to NAMUR NE107 and recorded as history entries.

The housing is easy to clean and features proven IP protection and chemically resistant materials for use in hygienic processing, in food, beverage and pharmaceutical industries. Combined with Bürkert ELEMENT actuators the unique pilot valve system enables a compressed air recycling that avoids actuator chambers contamination from the environment.

Technical data	
Material	Body: PPS, stainless steel Cover: PC Sealing: EPDM
Power supply	24 V DC $\pm$ 10 % UL: NEC Class 2
Residual ripple	max. 10 %
Setpoint setting	0/4 to 20 mA and 0 to 5/10 V
Output resistance	0/4 to 20 mA: 180 Ω 0 to 5/10 V: 19 k Ω
Control medium	neutral gases, air, quality classes acc. to ISO 8573-1
Dust concentration	Class 7 (<40 μ m particle size)
Particle density	Class 5 (<10 mg/m ³)
Pressure condensation point	Class 3 (<-20 °C)
Oil concentration	Class X (<25 mg/m ³)
Ambient temperature	-10 to +55 °C
Pilot air ports	Threaded ports G ¹ / ₈ stainless steel or
Supply pressure	Low air flow rate 0 to 7 bar ¹⁾ High air flow rate 3 to 7 bar
Air input filter	Exchangeable (mesh aperture ~0.1 mm)
Actuator system	
Actuator series Type 23xx	Low air flow rate: $\varnothing$ Actuator 70/90 mm High air flow rate: $\varnothing$ Actuator 130 mm High air flow rate: $\varnothing$ Actuator 175/225 mm
Actuator series Type 27xx	
Position detection module	Contact-free, wear-free
Stroke range valve spindle	3 to 45 mm
Installation	as required, preferably with actuator in upright position
Protection type	IP65/IP67 acc. to EN 60529, Type 4X acc. to NEMA 250 standard
Protection class	3 acc. to DIN EN 61140
Power consumption	<5 W
Electrical connection	
Multipole connection	M12, 8-pins or 4-pins
Cable gland	2xM16 $\times$ 1.5 (cable $\varnothing$ 5–10 mm) with connection terminals for cable cross-sections 0.14–1.5 mm ²
Bus communication	PROFIBUS DP-V1, DeviceNet, EtherNet/IP, PROFINET, Modbus TCP, bUS - Bürkert System Bus (based on CANopen)

4.26 Valves and cocks

Регулирующая арматура, Ventile und Hähne, Regulační armatury



Technical Features • Technische Daten • Technické data

DN

Electric drive HQ 006

Электропривод HQ 006

Elektroantrieb HQ 006, Elektropohon HQ 006

Voltage 24 V DC, 220 V DC

Enclosure IP 67

Maximum Torque 58 Nm

Operating time 90° 14 sec

4456



4480



4480 Электropневматический позиционер Niob Fluid

ПРОИЗВОДИТЕЛЬ

Niob Fluid s.r.o.



5320 A 120 Головка моющая 120°

5320 A 180 Головка моющая 180°

5320 B 120 Головка моющая 120°

5320 B 180 Головка моющая 180°

5320 C 120 Головка моющая 120°

5320 C 180 Головка моющая 180°



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