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Bosch Group

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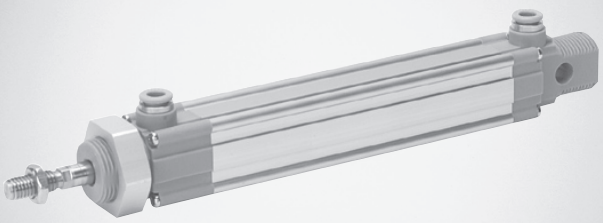
Piston rod cylinders → Standard cylinders

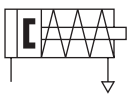
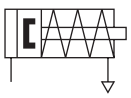
ISO 6432, series OCT

Brochure



Piston rod cylinders → Standard cylinders

ISO 6432, series OCT

		Mini cylinder, ISO 6432, series OCT ► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► Single-acting, retracted without pressure ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: external thread	**5**
		Mini cylinder, ISO 6432, series OCT ► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► Single-acting, retracted without pressure ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: external thread	**7**
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	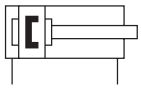	Mini cylinder, ISO 6432, series OCT ► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: external thread	**13**
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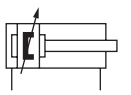
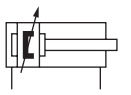
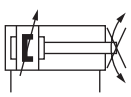
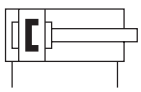
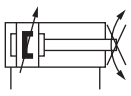
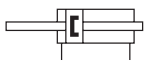
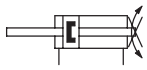
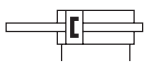
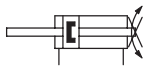
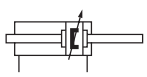
		Mini cylinder, ISO 6432, series OCT ► Ø 12 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► with integrated rear eye ► piston rod: external thread	**19**
		Mini cylinder, ISO 6432, series OCT ► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: non-rotating, external thread	**22**
		Mini cylinder, ISO 6432, series OCT ► Ø 12 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► with integrated rear eye ► piston rod: external thread	**25**
		Mini cylinder, ISO 6432, series OCT ► Ø 12 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► with integrated rear eye ► piston rod: non-rotating, external thread	**28**
		Mini cylinder, ISO 6432, series OCT ► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: external thread	**31**
		Mini cylinder, ISO 6432, series OCT ► Ø 12 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► with integrated rear eye ► piston rod: non-rotating, external thread	**34**
		Mini cylinder, ISO 6432, series OCT ► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, external thread	**37**
		Mini cylinder, ISO 6432, series OCT ► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, non-rotating, external thread	**40**
		Mini cylinder, ISO 6432, series OCT ► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, external thread	**43**
		Mini cylinder, ISO 6432, series OCT ► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, non-rotating, external thread	**46**
		Mini cylinder, ISO 6432, series OCT ► Ø 12 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, external thread	**49**

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information

Piston rod cylinders → Standard cylinders

ISO 6432, series OCT

Accessories

Cylinder mountings

piston rod mountings

Piston rod cylinders → Standard cylinders

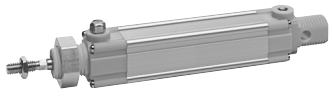
ISO 6432, series OCT

Guide units

Sensors and sensor mountings, accessories

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► Single-acting, retracted without pressure ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: external thread



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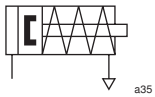


a35

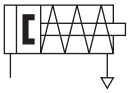
Standards	ISO 6432
Compressed air connection	internal thread
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20°C / +75°C
Medium temperature min./max.	-20°C / +75°C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		**[mm]**	**10**	**12**	**16**	**20**	**25**
Extending piston force		[N]	46	63	119	184	292
Spring force min. - max.		[N]	1 - 3	3.5 - 8	3.5 - 8	5.5 - 14	9 - 17
Impact energy		[J]	0.04	0.07	0.14	0.23	0.35
Weight	0 mm stroke	[kg]	0.04	0.06	0.07	0.12	0.17
	+10 mm stroke	[kg]	0.004	0.007	0.007	0.009	0.012
Stroke max.		[mm]	40	50	50	50	50

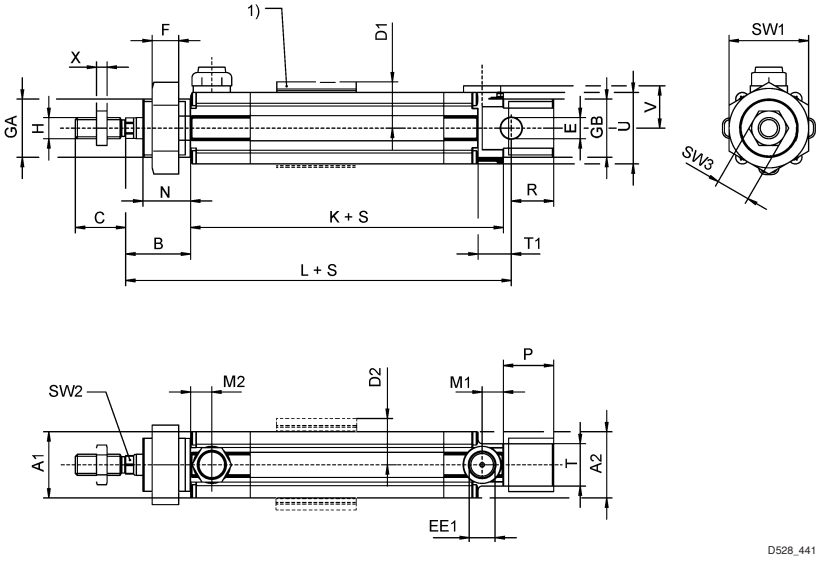
	Piston Ø **Piston rod thread** **Ports** **Cylinder outer thread**	**10** **M4** **M5** **M12x1,25**	**12** **M6** **M5** **M16x1,5**	**16** **M6** **M5** **M16x1,5**	**20** **M8** **G 1/8** **M22x1,5**	**25** **M10x1,25** **G 1/8** **M22x1,5**
	Stroke 10	R412006654	**R480052777**	**R412003641**	**R412003645**	**R412003649**
	25	**R412006655**	R480052780	**R412003642**	**R412003646**	**R412003650**
	40	R412006656	R480052783	R412003643	R412003647	**R412003651**
	50	-	R480052785	**R412003644**	**R412003648**	**R412003652**

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► Single-acting, retracted without pressure ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: external thread

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Piston Ø 10 - 25



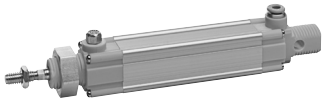
1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides, Ø 10 mm at 2 sides) possible
S = stroke

Piston Ø	A1/A2	B	C –2	D1/D2	E H9	EE1	F	GA/GB	H	K	L	M1/M2	N
10	15	16	11	12,55	4	M5	7	M12x1,25	M4	46	64	9	12
12	19	22	15	14.5	6	M5	8	M16x1,5	M6	46	75	8	17
16	21	22	15	15.5	6	M5	8	M16x1,5	M6	56	82	6	16
20	25	24	19	17.5	8	G 1/8	10	M22x1,5	M8	68	95	8	18
25	28.5	28	21	19.25	8	G 1/8	10	M22x1,5	M10x1,25	70	104	8	21

Piston Ø	P	R	T d13	T1	U	V	X	SW1	SW2	SW3			
10	12	10	8	6	18	12	2.2	17	3	7			
12	17	10	12	9	19	14	3.2	22	5	10			
16	17	13	12	9	23	13.5	3	22	5	10			
20	19	16	16	12.5	27	17.5	4	30	7	13			
25	21	15	16	12.5	30	18	5	30	9	17			

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► Single-acting, retracted without pressure ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: external thread



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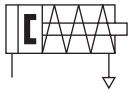


a35

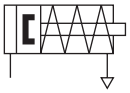
Standards	ISO 6432
Compressed air connection	push-in fitting
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20°C / +75°C
Medium temperature min./max.	-20°C / +75°C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		**[mm]**	**10**	**12**	**16**	**20**	**25**
Extending piston force		[N]	46	63	119	184	292
Spring force min. - max.		[N]	1 - 3	3.5 - 8	3.5 - 8	5.5 - 14	9 - 17
Impact energy		[J]	0.04	0.07	0.14	0.23	0.35
Weight	0 mm stroke	[kg]	0.04	0.06	0.07	0.12	0.17
	+10 mm stroke	[kg]	0.004	0.007	0.006	0.009	0.012
Stroke max.		[mm]	40	50	50	50	50

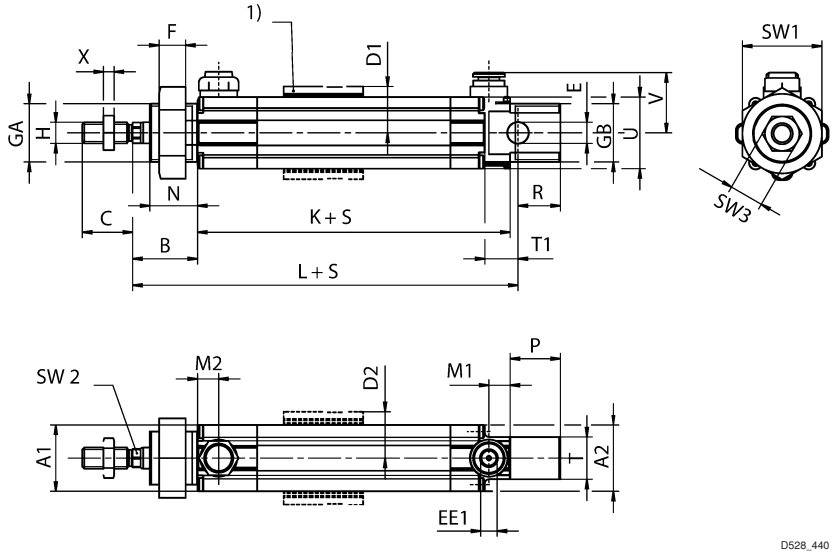
	Piston Ø **Piston rod thread** **Ports** **Cylinder outer thread**	**10** **M4** **Ø 4** **M12x1,25**	**12** **M6** **Ø 4** **M16x1,5**	**16** **M6** **Ø 4** **M16x1,5**	**20** **M8** **Ø 6** **M22x1,5**	**25** **M10x1,25** **Ø 6** **M22x1,5**
	Stroke 10	R412006662	R480052788	R412003629	R412003633	R412003637
	25	R412006661	R480052791	R412003630	**R412003634**	**R412003638**
	40	R412006660	R480052794	R412003631	R412003635	R412003639
	50	-	R480052796	R412003632	**R412003636**	**R412003640**

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► Single-acting, retracted without pressure ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: external thread

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Piston Ø 10 - 25



1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides, Ø 10 mm at 2 sides) possible
S = stroke

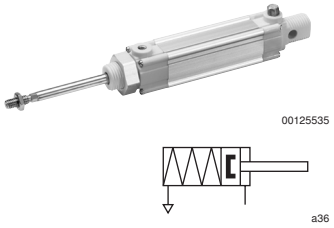
Piston Ø	A1/A2	B	C –2	D1/D2	E H9	EE1	F	GA/GB	H	K	L	M1/M2	N
10	15	16	11	12.55	4	Ø 4	7	M12x1,25	M4	46	64	9	12
12	19	22	15	14.5	6	Ø 4	8	M16x1,5	M6	46	75	8	17
16	21	22	15	15.5	6	Ø 4	8	M16x1,5	M6	56	82	6	16
20	25	24	19	17.5	8	Ø 6	10	M22x1,5	M8	68	95	8	18
25	28.5	28	21	19.25	8	Ø 6	10	M22x1,5	M10x1,25	70	104	8	21

Piston Ø	P	R	T d13	T1	U	V	X	SW1	SW2	SW3			
10	12	10	8	6	18	18.7	2.2	17	3	7			
12	17	10	12	9	19	19.2	3.2	22	5	10			
16	17	13	12	9	23	20.5	3	22	5	10			
20	19	16	16	12.5	27	22.7	4	30	7	13			
25	21	15	16	12.5	30	24	5	30	9	17			

Piston rod cylinders → Standard cylinders

Mini cylinder, Series OCT

► Ø 16 - 25 mm ► Ports: M5 - G 1/8 ► Single-acting, extended without pressure ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: external thread



Compressed air connection	internal thread
Working pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-20°C / +75°C
Medium temperature min./max.	-20°C / +75°C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel, hardened
Piston	Polyarylamide Aluminum
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary
- Note: Basic length K does not comply with the ISO standard

Piston Ø		**[mm]**	**16**	**20**	**25**		
Retracting piston force		[N]	104	157	242		
Spring force min. - max.		[N]	3 - 5	5 - 9	9.5 - 18		
Impact energy		[J]	0.14	0.23	0.35		
Weight	0 mm stroke	[kg]	0.07	0.12	0.17		
	+10 mm stroke	[kg]	0.007	0.009	0.012		
Stroke max.		[mm]	50	50	50		

	Piston Ø **Piston rod thread** **Ports** **Piston rod Ø** **Cylinder outer thread**	**16** **M6** **M5** **6** **M16x1,5**	**20** **M8** **G 1/8** **8** **M22x1,5**	**25** **M10x1,25** **G 1/8** **10** **M22x1,5**		
	Stroke 10	R480063647	R480078883	R480065654		
	25	R480066527	R480063369	**R480063370**		
	50	R480065626	**R480069103**	**R480063845**		

Piston rod cylinders → Standard cylinders

Mini cylinder, Series OCT

► Ø 16 - 25 mm ► Ports: M5 - G 1/8 ► Single-acting, extended without pressure ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: external thread

Configurable product	
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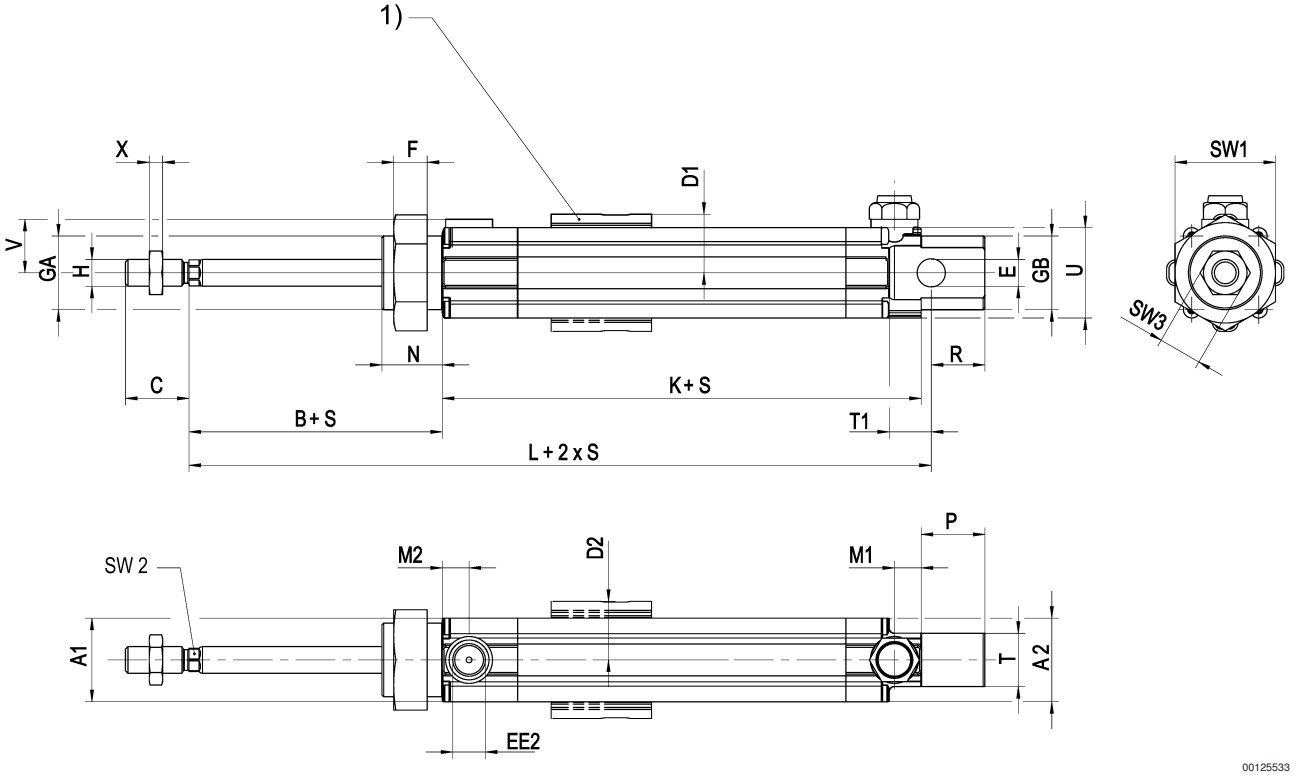
Dimensions



1) Clamp for sensor - installation at all 4 cylinder sides possible
S = stroke

Piston Ø	A1/A2	B	C –2	D1/D2	E H9	EE2	F	GA/GB	H	K 2)	L	M1/M2
16	21	22	15	15.5	6	M5	8	M16x1,5	M6	78	104	6
20	25	24	19	17.5	8	G 1/8	10	M22x1,5	M8	93	120	8
25	28.5	28	21	19.25	8	G 1/8	10	M22x1,5	M10x1,25	95	129	8

Piston Ø	N	P	R	T d13	T1	U	V	X	SW1	SW2	SW3		
16	16	17	13	12	9	23	13.5	3	22	5	10		
20	18	19	16	16	12.5	27	17.5	4	30	7	13		
25	21	21	15	16	12.5	30	18	5	30	9	17		

2) The basic length is longer than the ISO standard

Piston rod cylinders → Standard cylinders

Mini cylinder, Series OCT

► Ø 16 - 25 mm ► Ports: Ø 4 - Ø 6 ► Single-acting, extended without pressure ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: external thread

Compressed air connection	push-in fitting
Working pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-20°C / +75°C
Medium temperature min./max.	-20°C / +75°C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel, hardened
Piston	Polyarylamide Aluminum
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary
- Note: Basic length K does not comply with the ISO standard

Piston Ø		**[mm]**	**16**	**20**	**25**		
Retracting piston force		[N]	104	157	242		
Spring force min. - max.		[N]	3 - 5	5 - 9	9.5 - 18		
Impact energy		[J]	0.14	0.23	0.35		
Weight	0 mm stroke	[kg]	0.07	0.12	0.17		
	+10 mm stroke	[kg]	0.007	0.009	0.012		
Stroke max.		[mm]	50	50	50		

	Piston Ø **Piston rod thread** **Ports** **Piston rod Ø** **Cylinder outer thread**	**16** **M6** **Ø 4** **6** **M16x1,5**	**20** **M8** **Ø 6** **8** **M22x1,5**	**25** **M10x1,25** **Ø 6** **10** **M22x1,5**		
	Stroke 10	R480158011	R480158008	R480158007		
	25	R480143584	R480158009	R480078018		
	50	R480147171	R480066666	R480143476		

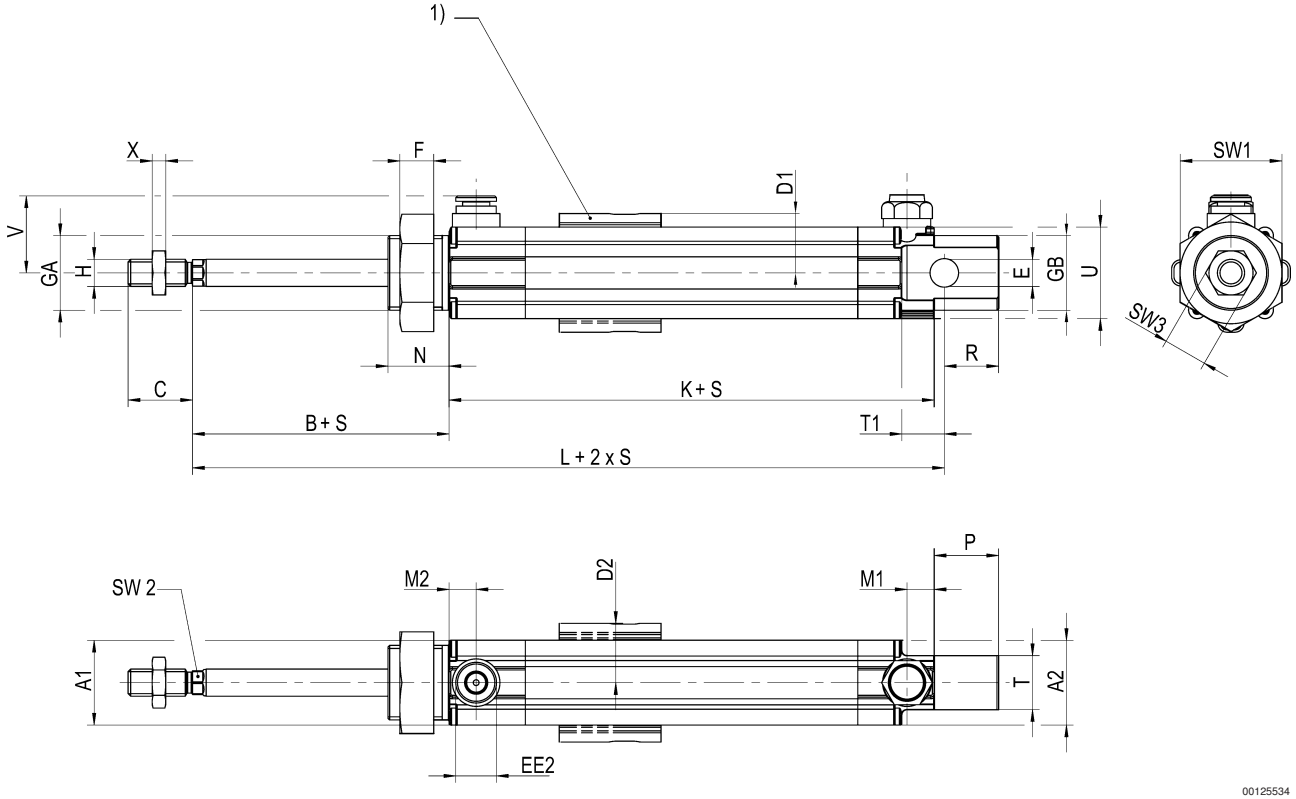
Piston rod cylinders → Standard cylinders

Mini cylinder, Series OCT

► Ø 16 - 25 mm ► Ports: Ø 4 - Ø 6 ► Single-acting, extended without pressure ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: external thread

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Dimensions



1) Clamp for sensor - installation at all 4 cylinder sides possible
S = stroke

Piston Ø	A1/A2	B	C –2	D1/D2	E H9	EE2	F	GA/GB	H	K 2)	L	M1/M2
16	21	22	15	15.5	6	Ø 4	8	M16x1,5	M6	78	104	6
20	25	24	19	17.5	8	Ø 6	10	M22x1,5	M8	93	120	8
25	28.5	28	21	19.25	8	Ø 6	10	M22x1,5	M10x1,25	95	129	8

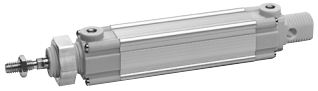
Piston Ø	N	P	R	T d13	T1	U	V	X	SW1	SW2	SW3		
16	16	17	13	12	9	23	20.5	3	22	5	10		
20	18	19	16	16	12.5	27	22.7	4	30	7	13		
25	21	21	15	16	12.5	30	24	5	30	9	17		

2) The basic length is longer than the ISO standard

Piston rod cylinders → Standard cylinders

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: external thread



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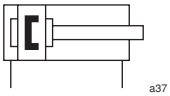


a37

Standards	ISO 6432
Compressed air connection	internal thread
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20°C / +75°C
Medium temperature min./max.	-20°C / +75°C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel, hardened
Piston	Aluminum
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

Technical Remarks

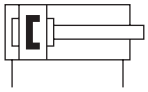
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		**[mm]**	**10**	**12**	**16**	**20**	**25**
Retracting piston force		[N]	48	64	130	195	259
Extending piston force		[N]	56	81	148	227	309
Impact energy		[J]	0.04	0.07	0.14	0.23	0.35
Weight	0 mm stroke	[kg]	0.045	0.058	0.07	0.122	0.168
	+10 mm stroke	[kg]	0.004	0.007	0.006	0.009	0.012
Stroke max.		[mm]	600	600	950	1100	1300

Piston rod cylinders → Standard cylinders

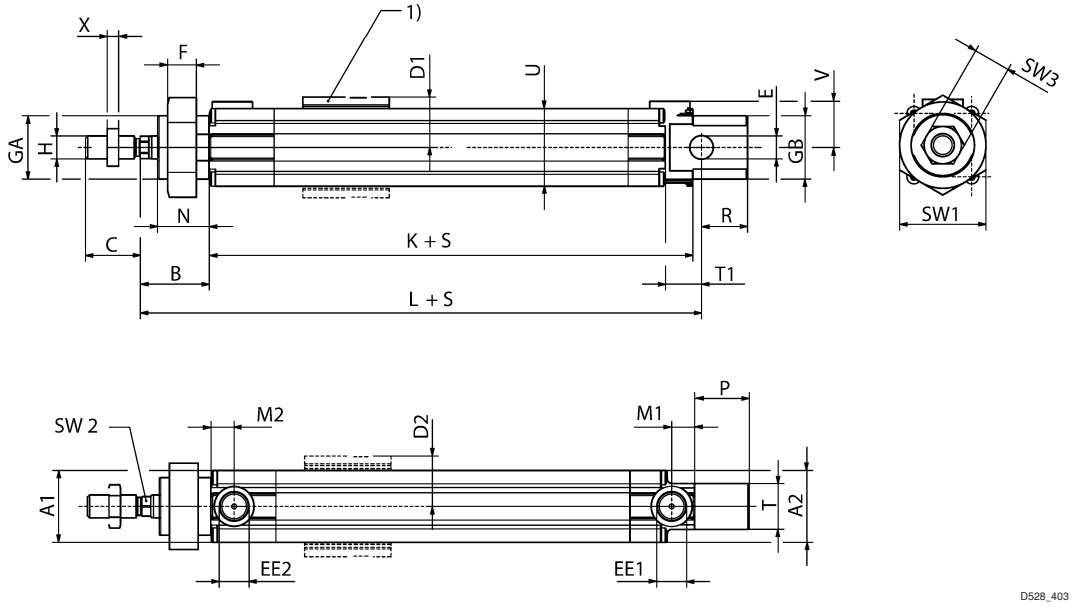
Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: external thread

	Piston Ø Piston rod thread Ports Cylinder outer thread	10 M4 M5 M12x1,25	12 M6 M5 M16x1,5	16 M6 M5 M16x1,5	20 M8 G 1/8 M22x1,5	25 M10x1,25 G 1/8 M22x1,5
	Stroke 10	**R480052297**	**R412003614**	**5283010020**	**5284010020**	**5285010020**
	25	**R480052298**	**R412003615**	**5283010050**	**5284010050**	**5285010050**
	50	**R480052299**	**R412003616**	**5283010100**	**5284010100**	**5285010100**
	80	**R480052300**	**R412003617**	**5283010160**	**5284010160**	**5285010160**
	100	**R480052301**	**R412003618**	**5283010200**	**5284010200**	**5285010200**
	125	R480052302	**R412003619**	**5283010250**	**5284010250**	**5285010250**
	160	R480052303	**R412003620**	**5283010320**	**5284010320**	**5285010320**
	200	R480052304	**R412003621**	5283010400	**5284010400**	**5285010400**
	250	R480052305	R412003622	**5283010500**	**5284010500**	**5285010500**
	320	**R480052306**	R412003623	5283010640	**5284010640**	**5285010640**
	400	R480052307	R412003624	**5283010800**	5284010800	5285010800
	500	R480158035	R412003625	5283011000	5284011000	**5285011000**

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Piston Ø 10 - 25



1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides, Ø 10 mm at 2 sides) possible
S = stroke

Piston Ø	A1/A2	B	C –2	D1/D2	E H9	EE1/EE2	F	GA/GB	H	K	L	M1/M2
10	15	16	11	12.55	4	M5	7	M12x1,25	M4	46	64	9
12	19	22	15	14.5	6	M5	8	M16x1,5	M6	46	75	8

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: external thread

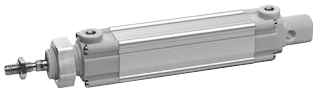
Piston Ø	A1/A2	B	C –2	D1/D2	E H9	EE1/EE2	F	GA/GB	H	K	L	M1/M2
16	21	22	15	15.5	6	M5	8	M16x1,5	M6	56	82	6
20	25	24	19	17.5	8	G 1/8	10	M22x1,5	M8	68	95	8
25	28.5	28	21	19.25	8	G 1/8	10	M22x1,5	M10x1,25	70	104	8

Piston Ø	N	P	R	T d13	T1	U	V	X	SW1	SW2	SW3		
10	12	12	10	8	6	18	12	2.2	17	3	7		
12	17	17	10	12	9	19	14	3.2	22	5	10		
16	16	17	13	12	9	23	13.5	3	22	5	10		
20	18	19	16	16	12.5	27	17.5	4	30	7	13		
25	21	21	15	16	12.5	30	18	5	30	9	17		

Piston rod cylinders → Standard cylinders

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: non-rotating, external thread



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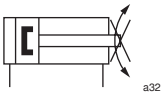


a32

Standards	ISO 6432
Compressed air connection	internal thread
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20 °C / +75 °C
Medium temperature min./max.	-20 °C / +75 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		[mm]	10	12	16	20	25
Retracting piston force		[N]	48	64	130	195	259
Extending piston force		[N]	56	81	148	227	309
Impact energy		[J]	0.04	0.07	0.14	0.23	0.35
Weight	0 mm stroke	[kg]	0.045	0.058	0.07	0.122	0.168
	+10 mm stroke	[kg]	0.004	0.007	0.006	0.009	0.012
Stroke max.		[mm]	600	600	950	1100	1300

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: non-rotating, external thread

	Piston Ø **Piston rod thread** **Ports** **Cylinder outer thread** **Torque for torsion protection, max.**	**10** **M4** **M5** **M12x1,25** **0.07**	**12** **M6** **M5** **M16x1,5** **0.1**	**16** **M6** **M5** **M16x1,5** **0.15**	**16** **M6** **M5** **M16x1,5** -	**20** **M8** **G 1/8** **M22x1,5** **0.25**
	Stroke 10	**R480052323**	R412003916	**5283030020**	-	5284030020
	25	**R480052324**	R412003917	**5283030050**	-	5284030050
	50	R480052325	R412003918	**5283030100**	-	**5284030100**
	80	R480052326	R412003919	**5283030160**	-	**5284030160**
	100	R480052327	R412003920	**5283030200**	-	**5284030200**
	125	R480052328	R412003921	**5283030250**	-	5284030250
	160	R480052329	R412003923	**5283030320**	-	5284030320
	200	R480052330	R412003924	5283030400	-	5284030400
	250	R480052331	R412003925	5283030500	-	5284030500
	320	R480052332	R412003926	5283030640	5283030600	5284030640
	400	R480052333	R412003927	5283030800	-	5284030800
	500	R480158036	R412003928	5283031000	-	5284031000
	**Piston Ø** **Piston rod thread** **Ports** **Cylinder outer thread** **Torque for torsion protection, max.**	**25** **M10x1,25** **G 1/8** **M22x1,5** **0.4**				
	Stroke 10	5285030020				
	25	**5285030050**				
	50	**5285030100**				
	80	**5285030160**				
	100	**5285030200**				
	125	**5285030250**				
	160	**5285030320**				
	200	**5285030400**				
	250	5285030500				
	320	5285030640				
	400	5285030800				
	500	5285031000				

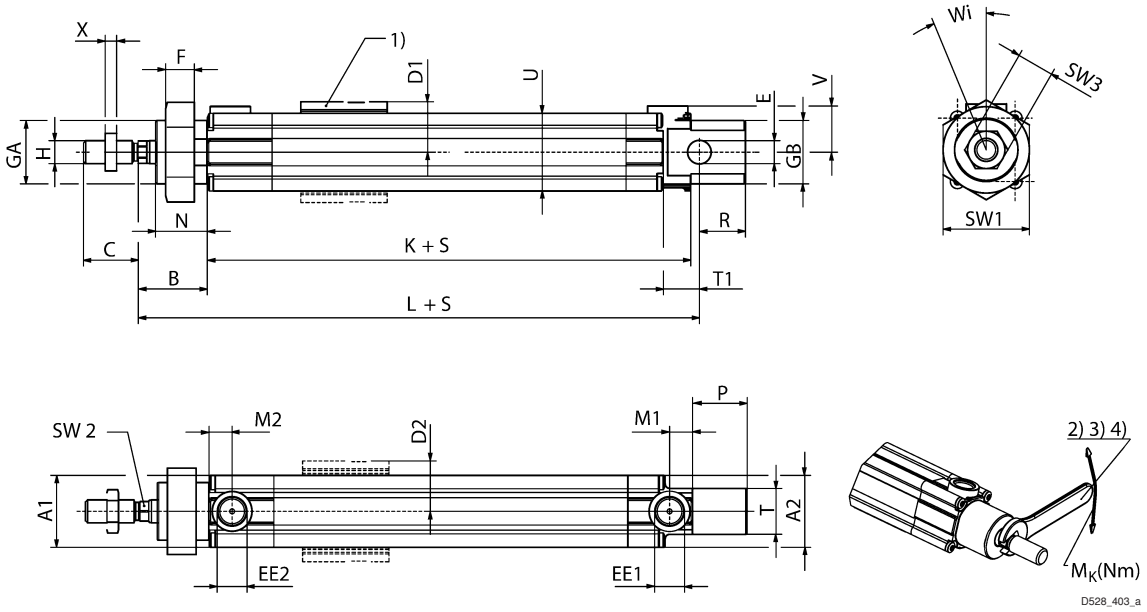
Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Piston rod cylinders → Standard cylinders

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: non-rotating, external thread

Piston Ø 10 - 25



1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides, Ø 10 mm at 2 sides) possible
2) Do not exceed the given max. torque M-K of the piston rod or else the non-rotating function may not work.
3) When assembling piston rod mountings, the piston rod must be secured with a tool to prevent twisting.
4) View without hexagon nut on piston rod and cylinder front end cover
S = stroke

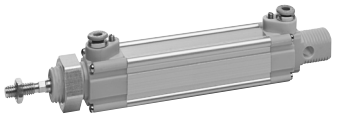
Piston Ø	A1/A2	B	C –2	D1/D2	E H9	EE1/EE2	F	GA/GB	H	K	L	M1/M2
10	15	16	11	12.55	4	M5	7	M12x1,25	M4	46	64	9
12	19	22	15	14.5	6	M5	8	M16x1,5	M6	46	75	8
16	21	22	15	15.5	6	M5	8	M16x1,5	M6	56	82	6
20	25	24	19	17.5	8	G 1/8	10	M22x1,5	M8	68	95	8
25	28.5	28	21	19.25	8	G 1/8	10	M22x1,5	M10x1,25	70	104	8

Piston Ø	N	P	R	T d13	T1	U	V	X	SW1	SW2	SW3	MK	Wi
10	12	12	10	8	6	18	12	2.2	17	3	7	0,07	±4,0°
12	17	17	10	12	9	19	14	3.2	22	5	10	0,1	±3,9°
16	16	17	13	12	9	23	13.5	3	22	5	10	0,15	±3,2°
20	18	19	16	16	12.5	27	17.5	4	30	7	13	0,25	±2,5°
25	21	21	15	16	12.5	30	18	5	30	9	17	0,4	±2,2°

MK = max. torque at piston rod
Wi = angle of rotation of piston rod

Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► with integrated rear eye ► piston rod: external thread



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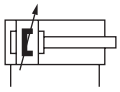


a15

Standards	ISO 6432
Compressed air connection	push-in fitting
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20°C / +75°C
Medium temperature min./max.	-20°C / +75°C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

Technical Remarks

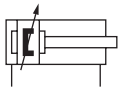
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		**[mm]**	**12**	**16**	**20**	**25**	
Retracting piston force		[N]	64	130	195	259	
Extending piston force		[N]	81	148	227	309	
Cushioning length		[mm]	10	10	13	16	
Cushioning energy		[J]	0.5	0.6	1.5	2.3	
Weight	0 mm stroke	[kg]	0.058	0.07	0.122	0.168	
	+10 mm stroke	[kg]	0.007	0.0067	0.009	0.012	
Stroke max.		[mm]	600	950	1100	1300	

Piston rod cylinders → Standard cylinders

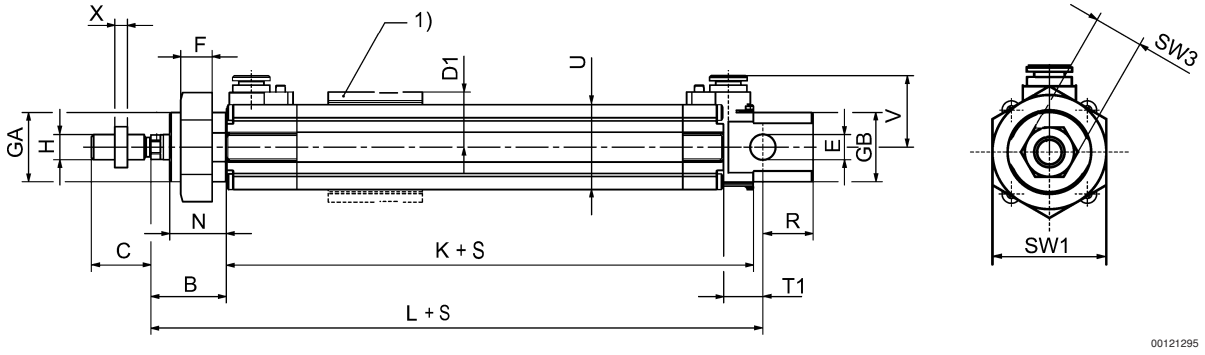
Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► with integrated rear eye ► piston rod: external thread

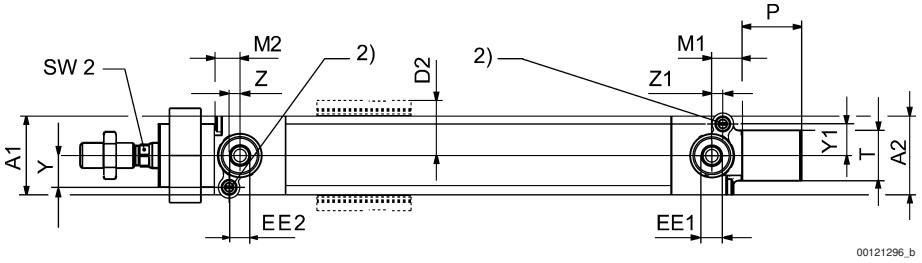
	Piston Ø Piston rod thread Ports Cylinder outer thread	12 M6 Ø 4 M16x1,5	16 M6 Ø 4 M16x1,5	20 M8 Ø 6 M22x1,5	25 M10x1,25 Ø 6 M22x1,5	
	Stroke 10	R480049564	**5283100020**	**5284100020**	**5285100020**	
	25	R480049567	**5283100050**	**5284100050**	**5285100050**	
	50	R480049570	**5283100100**	**5284100100**	**5285100100**	
	80	R480049574	**5283100160**	**5284100160**	**5285100160**	
	100	R480049575	**5283100200**	**5284100200**	**5285100200**	
	125	R480049576	**5283100250**	**5284100250**	**5285100250**	
	160	R480049578	5283100320	5284100320	5285100320	
	200	R480049579	**5283100400**	**5284100400**	**5285100400**	
	250	R480049580	5283100500	5284100500	5285100500	
	320	R480049582	5283100640	5284100640	5285100640	
	400	R480049583	5283100800	5284100800	5285100800	
	500	R480049584	5283101000	5284101000	5285101000	

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Piston Ø 12 - 25



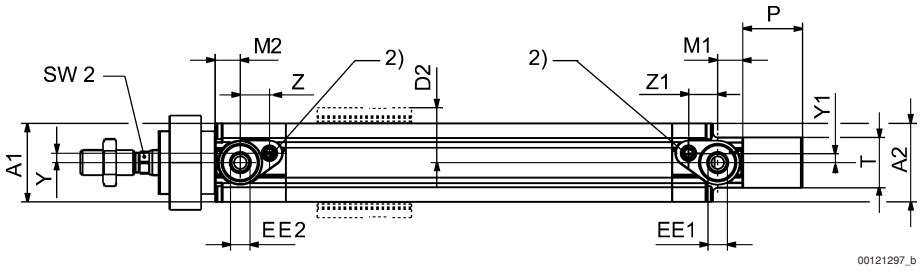
Piston Ø 12



Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► with integrated rear eye ► piston rod: external thread

Piston Ø 16 - 25



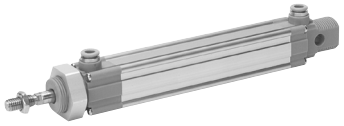
1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides) possible
2) Slot for cushioning screw 0.8 mm
S = stroke

Piston Ø	A1/A2	B	C –2	D1/D2	E H9	EE1/EE2	F	GA/GB	H	K	L	M1/M2
12	19	22	15	14.5	6	Ø 4	8	M16x1,5	M6	46	75	8
16	21	22	15	15.5	6	Ø 4	8	M16x1,5	M6	56	82	6
20	25	24	19	17.5	8	Ø 6	10	M22x1,5	M8	68	95	8
25	28.5	28	21	19.25	8	Ø 6	10	M22x1,5	M10x1,25	70	104	8

Piston Ø	N	P	R	T d13	T1	U	V	X	SW1	SW2	SW3	Z/Z1	Y/Y1
12	17	17	10	12	9	19	19.2	3.2	22	5	10	2.5	7
16	16	17	13	12	9	23	20.5	3	22	5	10	6.6	2.4
20	18	19	16	16	12.5	27	22.7	4	30	7	13	9.3	3
25	21	21	15	16	12.5	30	24	5	30	9	17	9.3	3

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: non-rotating, external thread



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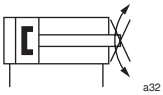


a32

Standards	ISO 6432
Compressed air connection	push-in fitting
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20 °C / +75 °C
Medium temperature min./max.	-20 °C / +75 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel, hardened
Piston	Aluminum
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		**[mm]**	**10**	**12**	**16**	**20**	**25**
Retracting piston force		[N]	48	64	130	195	259
Extending piston force		[N]	56	81	148	227	309
Impact energy		[J]	0.04	0.07	0.14	0.23	0.35
Weight	0 mm stroke	[kg]	0.045	0.058	0.07	0.122	0.168
	+10 mm stroke	[kg]	0.004	0.006	0.006	0.006	0.012
Stroke max.		[mm]	600	600	950	1100	1300

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: non-rotating, external thread

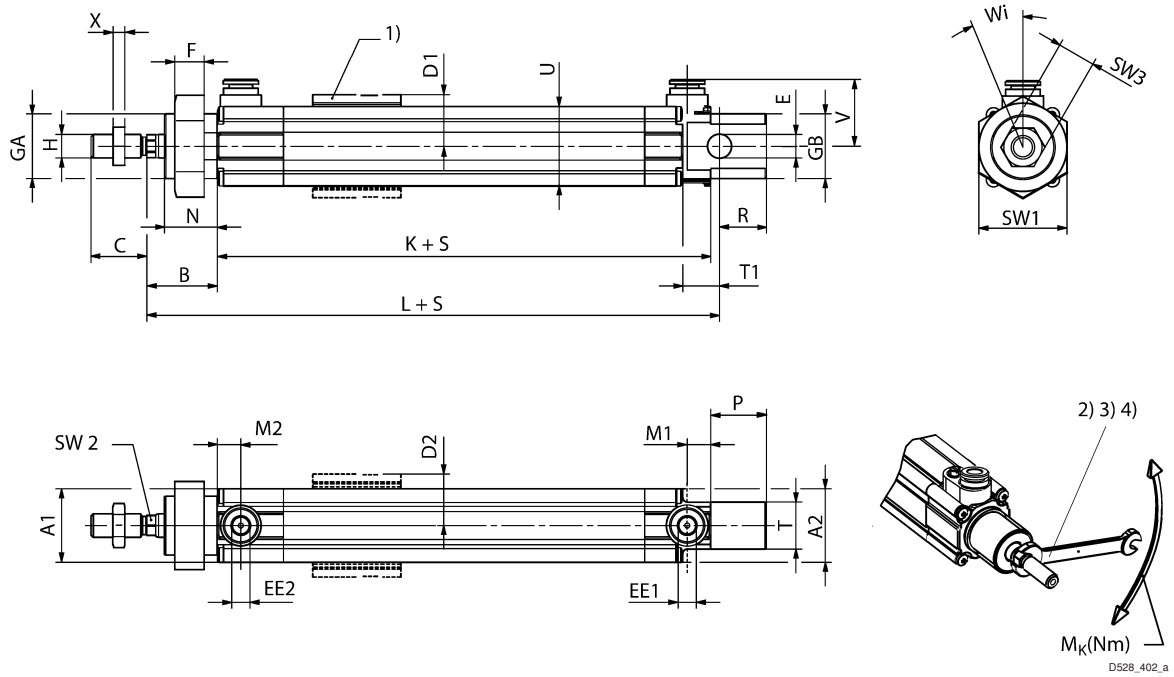
	Piston Ø Piston rod thread Ports Cylinder outer thread Torque for torsion protection, max.	10 M4 Ø 4 M12x1,25 0.07	12 M6 Ø 4 M16x1,5 0.1	16 M6 Ø 4 M16x1,5 0.15	20 M8 Ø 6 M22x1,5 0.25	25 M10x1,25 Ø 6 M22x1,5 0.4
	Stroke 10	R480052335	**R412003904**	5283020020	5284020020	5285020020
	25	R480052336	R412003905	5283020050	5284020050	5285020050
	50	R480052337	R412003906	5283020100	5284020100	5285020100
	80	R480052338	R412003907	5283020160	5284020160	5285020160
	100	R480052339	R412003908	5283020200	5284020200	5285020200
	125	R480052340	R412003909	5283020250	5284020250	5285020250
	160	R480052341	R412003910	5283020320	5284020320	5285020320
	200	R480052342	R412003911	5283020400	5284020400	5285020400
	250	R480052343	R412003912	5283020500	5284020500	5285020500
	320	R480052344	R412003913	5283020640	5284020640	5285020640
	400	R480052345	R412003914	5283020800	5284020800	5285020800
	500	R480158038	R412003915	5283021000	5284021000	5285021000

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: non-rotating, external thread

Piston Ø 10 - 25



1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides, Ø 10 mm at 2 sides) possible
2) Do not exceed the given max. torque M-K of the piston rod or else the non-rotating function may not work.
3) When assembling piston rod mountings, the piston rod must be secured with a tool to prevent twisting.
4) View without hexagon nut on piston rod and cylinder front end cover
S = stroke

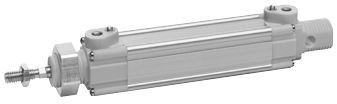
Piston Ø	A1/A2	B	C –2	D1/D2	E H9	EE1/EE2	F	GA/GB	H	K	L	M1/M2
10	15	16	11	12.5	4	Ø 4	7	M12x1,25	M4	46	64	9
12	19	22	15	14.5	6	Ø 4	8	M16x1,5	M6	46	75	8
16	21	22	15	15.5	6	Ø 4	8	M16x1,5	M6	56	82	6
20	25	24	19	17.5	8	Ø 6	10	M22x1,5	M8	68	95	8
25	28.5	28	21	19.25	8	Ø 6	10	M22x1,5	M10x1,25	70	104	8

Piston Ø	N	P	R	T d13	T1	U	V	X	SW1	SW2	SW3	MK	Wi
10	12	12	10	8	6	18	18.7	2.2	17	3	7	0,07	±4,0°
12	17	17	10	12	9	19	19.2	3.2	22	5	10	0,1	±3,9°
16	16	17	13	12	9	23	20.5	3	22	5	10	0,15	±3,2°
20	18	19	16	16	12.5	27	22.7	4	30	7	13	0,25	±2,5°
25	21	21	15	16	12.5	30	24	5	30	9	17	0,40	±2,2°

MK = max. torque at piston rod
Wi = angle of rotation of piston rod

Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► with integrated rear eye ► piston rod: external thread



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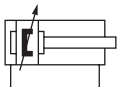


a15

Standards	ISO 6432
Compressed air connection	internal thread
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20°C / +75°C
Medium temperature min./max.	-20°C / +75°C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

Technical Remarks

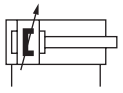
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		**[mm]**	**12**	**16**	**20**	**25**	
Retracting piston force		[N]	64	130	195	259	
Extending piston force		[N]	81	148	227	309	
Cushioning length		[mm]	10	10	13	16	
Cushioning energy		[J]	0.5	0.6	1.5	2.3	
Weight	0 mm stroke	[kg]	0.058	0.07	0.122	0.168	
	+10 mm stroke	[kg]	0.007	0.007	0.009	0.012	
Stroke max.		[mm]	600	950	1100	1300	

Piston rod cylinders → Standard cylinders

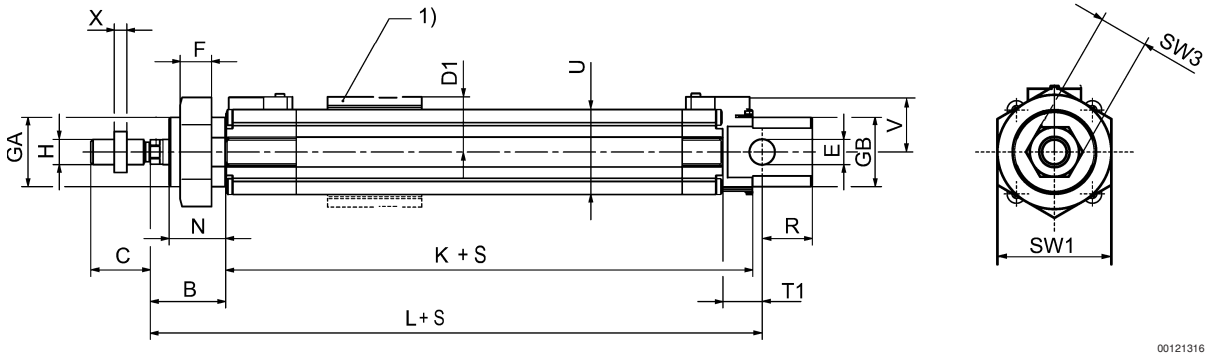
Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► with integrated rear eye ► piston rod: external thread

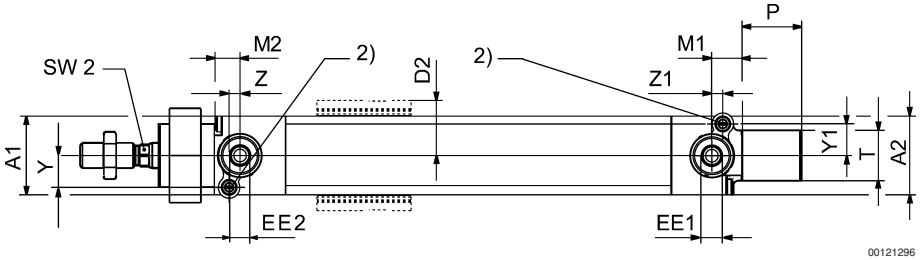
	Piston Ø Piston rod thread Ports Cylinder outer thread	12 M6 M5 M16x1,5	16 M6 M5 M16x1,5	20 M8 G 1/8 M22x1,5	25 M10x1,25 G 1/8 M22x1,5	
	Stroke 10	R480048012	**5283110020**	**5284110020**	**5285110020**	
	25	**R480049524**	**5283110050**	**5284110050**	**5285110050**	
	50	**R480049527**	**5283110100**	**5284110100**	**5285110100**	
	80	**R480049531**	**5283110160**	**5284110160**	**5285110160**	
	100	R480049532	**5283110200**	**5284110200**	**5285110200**	
	125	R480049533	**5283110250**	**5284110250**	**5285110250**	
	160	R480049535	**5283110320**	**5284110320**	**5285110320**	
	200	R480049536	**5283110400**	**5284110400**	**5285110400**	
	250	**R480049537**	**5283110500**	**5284110500**	**5285110500**	
	320	R480049539	5283110640	**5284110640**	**5285110640**	
	400	R480049540	5283110800	**5284110800**	**5285110800**	
	500	R480049541	5283111000	**5284111000**	**5285111000**	

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Piston Ø 12 - 25



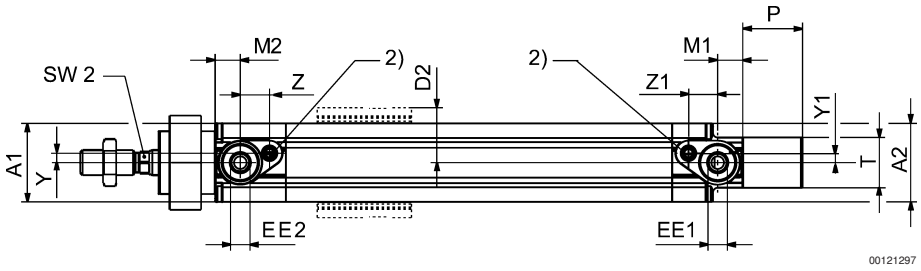
Piston Ø 12



Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► with integrated rear eye ► piston rod: external thread

Piston Ø 16 - 25



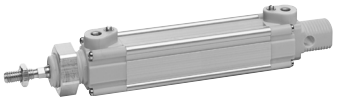
1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides) possible
2) Slot for cushioning screw 0.8 mm
S = stroke

Piston Ø	A1/A2	B	C –2	D1/D2	E H9	EE1/EE2	F	GA/GB	H	K	L	M1/M2
12	19	22	15	14.5	6	M5	8	M16x1,5	M6	46	75	8
16	21	22	15	15.5	6	M5	8	M16x1,5	M6	56	82	6
20	25	24	19	17.5	8	G 1/8	10	M22x1,5	M8	68	95	8
25	28.5	28	21	19.25	8	G 1/8	10	M22x1,5	M10x1,25	70	104	8

Piston Ø	N	P	R	T d13	T1	U	V	X	SW1	SW2	SW3	Z/Z1	Y/Y1
12	17	17	10	12	9	19	14	3.2	22	5	10	2.5	7
16	16	17	13	12	9	23	15.8	3	22	5	10	6.6	2.4
20	18	19	16	16	12.5	27	17.5	4	30	7	13	9.3	3
25	21	21	15	16	12.5	30	18.8	5	30	9	17	9.3	3

Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► with integrated rear eye ► piston rod: non-rotating, external thread



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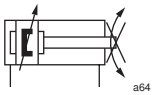


a64

Standards	ISO 6432
Compressed air connection	internal thread
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20 °C / +75 °C
Medium temperature min./max.	-20 °C / +75 °C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

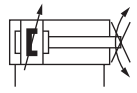
Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		**[mm]**	**12**	**16**	**20**	**25**	
Retracting piston force		[N]	64	130	195	259	
Extending piston force		[N]	81	148	227	309	
Cushioning length		[mm]	10	10	13	16	
Cushioning energy		[J]	0.5	0.6	1.5	2.3	
Weight	0 mm stroke	[kg]	0.058	0.07	0.122	0.168	
	+10 mm stroke	[kg]	0.007	0.007	0.009	0.012	
Stroke max.		[mm]	600	950	1100	1300	

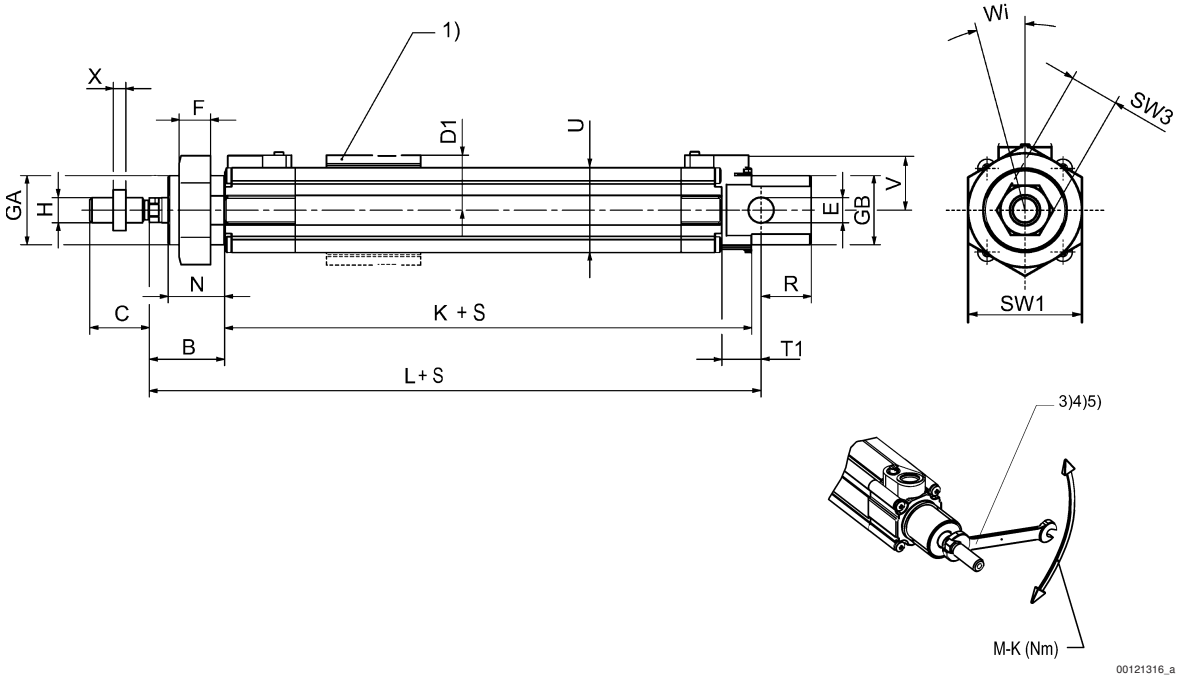
Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► with integrated rear eye ► piston rod: non-rotating, external thread

	Piston Ø Piston rod thread Ports Cylinder outer thread Torque for torsion protection, max.	12 M6 M5 M16x1,5 0.1	16 M6 M5 M16x1,5 0.15	20 M8 G 1/8 M22x1,5 0.25	25 M10x1,25 G 1/8 M22x1,5 0.4	
	Stroke 10	R480049543	5283130020	5284130020	5285130020	
	25	R480049546	5283130050	**5284130050**	**5285130050**	
	50	R480047846	5283130100	**5284130100**	**5285130100**	
	80	R480049552	5283130160	5284130160	5285130160	
	100	R480049553	**5283130200**	5284130200	**5285130200**	
	125	R480049554	**5283130250**	5284130250	5285130250	
	160	R480049556	**5283130320**	5284130320	**5285130320**	
	200	R480049557	5283130400	**5284130400**	5285130400	
	250	R480049558	5283130500	5284130500	5285130500	
	320	R480049560	5283130640	5284130640	**5285130640**	
	400	R480049561	5283130800	5284130800	5285130800	
	500	R480049562	5283131000	5284131000	5285131000	

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

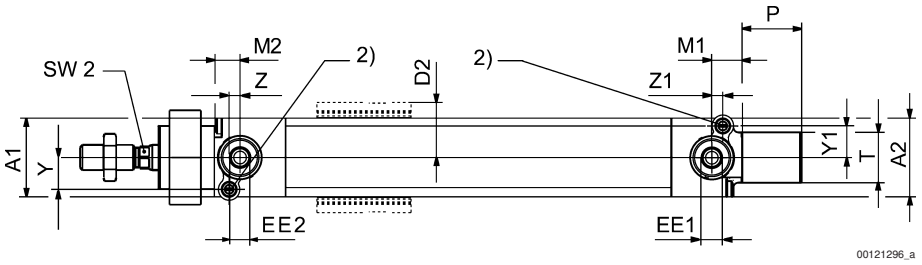
Piston Ø 12 - 25



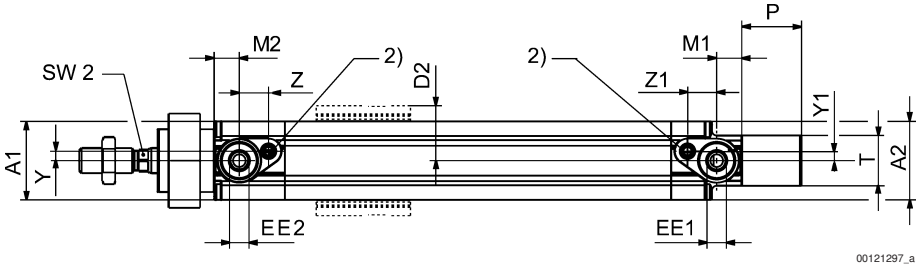
Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► with integrated rear eye ► piston rod: non-rotating, external thread

Piston Ø 12



Piston Ø 16 - 25



1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides) possible
2) Slot for cushioning screw 0.8 mm
3) Do not exceed the given max. torque M-K of the piston rod or the non-rotating function may not work.
4) When assembling piston rod mountings, the piston rod must be secured with a tool to prevent twisting.
5) View without hexagon nut on piston rod and cylinder front end cover
S = stroke

Piston Ø	A1/A2	B	C –2	D1/D2	E H9	EE1/EE2	F	GA/GB	H	K	L	M1/M2
12	19	22	15	14.5	6	M5	8	M16x1,5	M6	46	75	8
16	21	22	15	15.5	6	M5	8	M16x1,5	M6	56	82	6
20	25	24	19	17.5	8	G 1/8	10	M22x1,5	M8	68	95	8
25	28.5	28	21	19.25	8	G 1/8	10	M22x1,5	M10x1,25	70	104	8

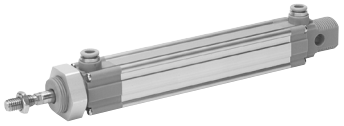
Piston Ø	N	P	R	T d13	T1	U	V	X	SW1	SW2	SW3	Z/Z1	Y/Y1
12	17	17	10	12	9	19	14	3.2	22	5	10	2.5	7
16	16	17	13	12	9	23	15.8	3	22	5	10	6.6	2.4
20	18	19	16	16	12.5	27	17.5	4	30	7	13	9.3	3
25	21	21	15	16	12.5	30	18.8	5	30	9	17	9.3	3

Piston Ø	MK	Wi
12	0,10	±3,9°
16	0,15	±3,2°
20	0,25	±2,5°
25	0,40	±2,2°

MK = max. torque at piston rod
Wi = angle of rotation of piston rod

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: external thread



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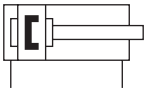


a37

Standards	ISO 6432
Compressed air connection	push-in fitting
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20°C / +75°C
Medium temperature min./max.	-20°C / +75°C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel, hardened
Piston	Aluminum
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

Technical Remarks

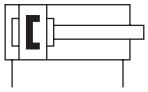
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		**[mm]**	**10**	**12**	**16**	**20**	**25**
Retracting piston force		[N]	48	64	130	195	259
Extending piston force		[N]	56	81	148	227	309
Impact energy		[J]	0.04	0.07	0.14	0.23	0.35
Weight	0 mm stroke	[kg]	0.045	0.058	0.07	0.122	0.168
	+10 mm stroke	[kg]	0.004	0.006	0.006	0.006	0.012
Stroke max.		[mm]	600	600	950	1100	1300

Piston rod cylinders → Standard cylinders

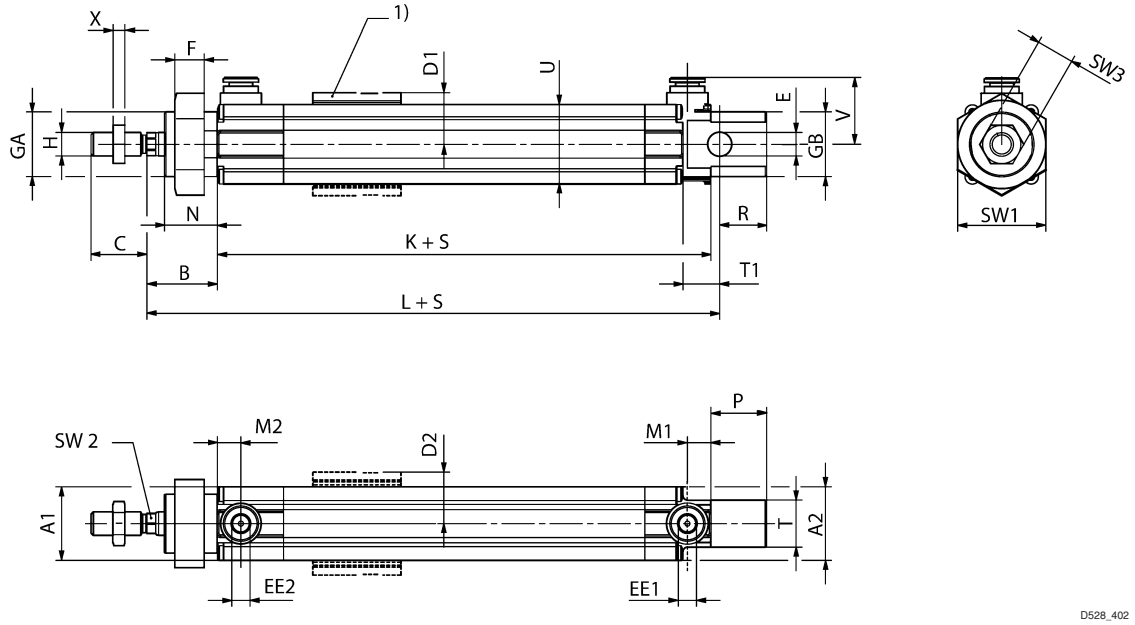
Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: external thread

	Piston Ø Piston rod thread Ports Cylinder outer thread	10 M4 Ø 4 M12x1,25	12 M6 Ø 4 M16x1,5	16 M6 Ø 4 M16x1,5	20 M8 Ø 6 M22x1,5	25 M10x1,25 Ø 6 M22x1,5
	Stroke 10	**R480052311**	**R412003602**	**5283000020**	**5284000020**	**5285000020**
	25	R480052312	**R412003603**	**5283000050**	**5284000050**	**5285000050**
	50	R480052313	**R412003604**	**5283000100**	**5284000100**	**5285000100**
	80	R480052314	**R412003605**	**5283000160**	**5284000160**	**5285000160**
	100	R480052315	**R412003606**	**5283000200**	**5284000200**	**5285000200**
	125	R480052316	**R412003607**	**5283000250**	**5284000250**	**5285000250**
	160	R480052317	R412003608	**5283000320**	**5284000320**	**5285000320**
	200	R480052318	R412003609	5283000400	**5284000400**	**5285000400**
	250	R480052319	R412003610	5283000500	5284000500	5285000500
	320	R480052320	R412003611	5283000640	5284000640	5285000640
	400	R480052321	R412003612	5283000800	5284000800	5285000800
	500	R480158039	R412003613	5283001000	5284001000	5285001000

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Piston Ø 10 - 25



S = stroke
1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides, Ø 10 mm at 2 sides) possible

Piston Ø	A1/A2	B	C –2	D1/D2	E H9	EE1/EE2	F	GA/GB	H	K	L	M1/M2
10	15	16	11	12.55	4	Ø 4	7	M12x1,25	M4	46	64	9

Mini cylinder, ISO 6432, series OCT

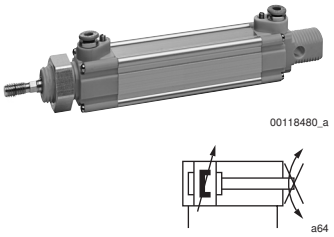
► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► with integrated rear eye ► piston rod: external thread

Piston Ø	A1/A2	B	C –2	D1/D2	E H9	EE1/EE2	F	GA/GB	H	K	L	M1/M2
12	19	22	15	14.5	6	Ø 4	8	M16x1,5	M6	46	75	8
16	21	22	15	15.5	6	Ø 4	8	M16x1,5	M6	56	82	6
20	25	24	19	17.5	8	Ø 6	10	M22x1,5	M8	68	95	8
25	28.5	28	21	19.25	8	Ø 6	10	M22x1,5	M10x1,25	70	104	8

Piston Ø	N	P	R	T d13	T1	U	V	X	SW1	SW2	SW3		
10	12	12	10	8	6	18	18.7	2.2	17	3	7		
12	17	17	10	12	9	19	19.2	3.2	22	5	10		
16	16	17	13	12	9	23	20.5	3	22	5	10		
20	18	19	16	16	12.5	27	22.7	4	30	7	13		
25	21	21	15	16	12.5	30	24	5	30	9	17		

Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► with integrated rear eye ► piston rod: non-rotating, external thread



Standards	ISO 6432
Compressed air connection	push-in fitting
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20 °C / +75 °C
Medium temperature min./max.	-20 °C / +75 °C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

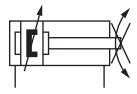
Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		**[mm]**	**12**	**16**	**20**	**25**	
Retracting piston force		[N]	64	130	195	259	
Extending piston force		[N]	81	148	227	309	
Cushioning length		[mm]	10	10	13	16	
Cushioning energy		[J]	0.5	0.6	1.5	2.3	
Weight	0 mm stroke	[kg]	0.058	0.07	0.122	0.168	
	+10 mm stroke	[kg]	0.007	0.0067	0.009	0.012	
Stroke max.		[mm]	600	950	1100	1300	

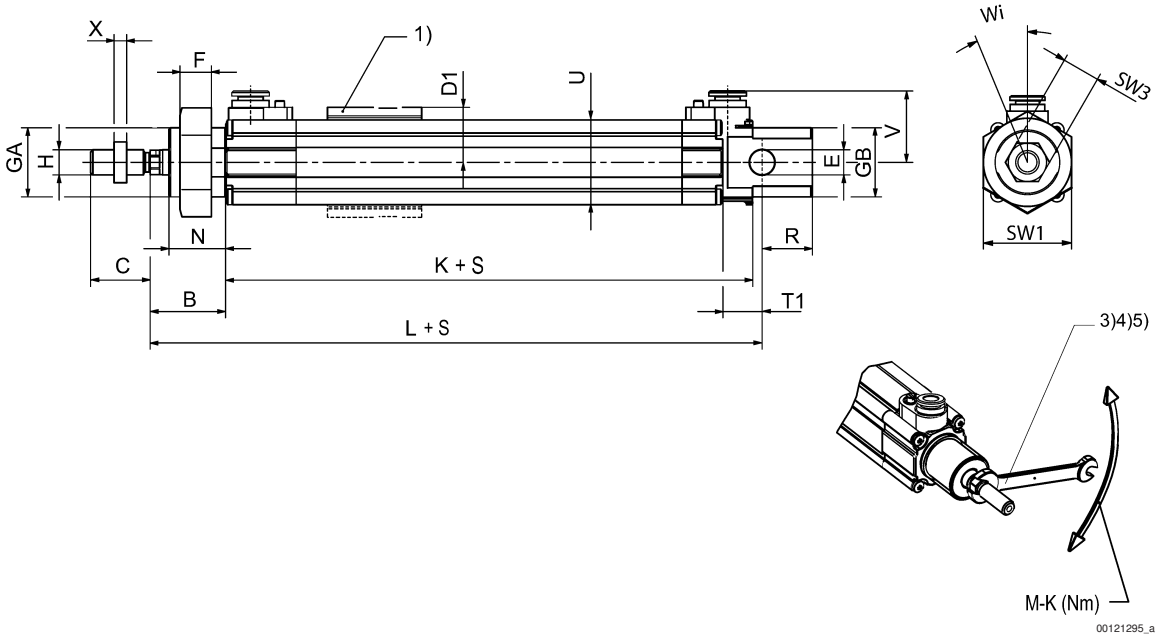
Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► with integrated rear eye ► piston rod: non-rotating, external thread

	Piston Ø Piston rod thread Ports Cylinder outer thread Torque for torsion protection, max.	12 M6 Ø 4 M16x1,5 0.1	16 M6 Ø 4 M16x1,5 0.15	20 M8 Ø 6 M22x1,5 0.25	25 M10x1,25 Ø 6 M22x1,5 0.4	
	Stroke 10	R480049585	5283120020	5284120020	5285120020	
	25	R480049588	5283120050	5284120050	5285120050	
	50	R480047845	5283120100	5284120100	5285120100	
	80	R480049594	5283120160	5284120160	5285120160	
	100	R480049595	5283120200	5284120200	5285120200	
	125	R480049596	5283120250	5284120250	5285120250	
	160	R480049597	5283120320	5284120320	5285120320	
	200	R480049599	5283120400	5284120400	5285120400	
	250	R480049600	5283120500	5284120500	5285120500	
	320	R480049602	5283120640	5284120640	5285120640	
	400	R480049603	5283120800	5284120800	5285120800	
	500	R480049604	5283121000	5284121000	5285121000	

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

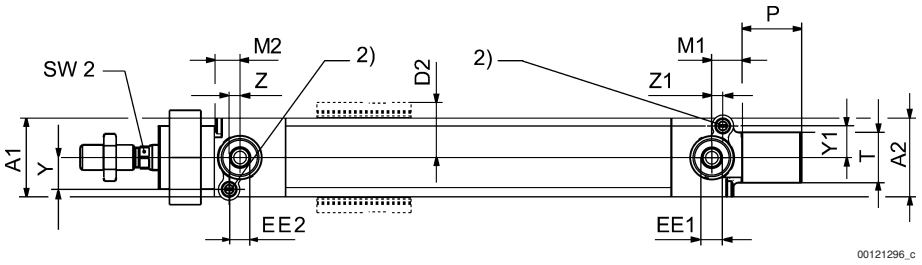
Piston Ø 12 - 25



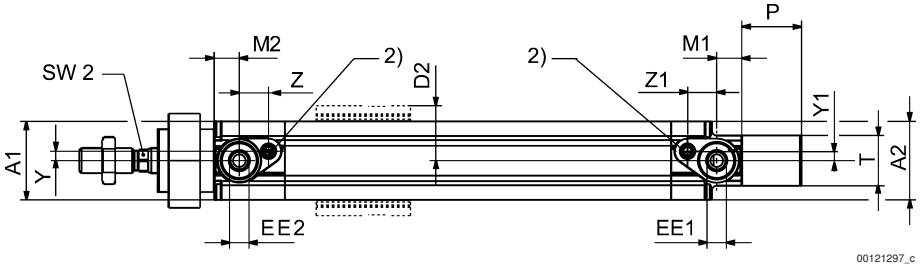
Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► with integrated rear eye ► piston rod: non-rotating, external thread

Piston Ø 12



Piston Ø 16 - 25



1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides) possible
2) Slot for cushioning screw 0.8 mm
3) Do not exceed the given max. torque M-K of the piston rod or the non-rotating function may not work.
4) When assembling piston rod mountings, the piston rod must be secured with a tool to prevent twisting.
5) View without hexagon nut on piston rod and cylinder front end cover
S = stroke

Piston Ø	A1/A2	B	C –2	D1/D2	E H9	EE1/EE2	F	GA/GB	H	K	L	M1/M2
12	19	22	15	14.5	6	Ø 4	8	M16x1,5	M6	46	75	8
16	21	22	15	15.5	6	Ø 4	8	M16x1,5	M6	56	82	6
20	25	24	19	17.5	8	Ø 6	10	M22x1,5	M8	68	95	8
25	28.5	28	21	19.25	8	Ø 6	10	M22x1,5	M10x1,25	70	104	8

Piston Ø	N	P	R	T d13	T1	U	V	X	SW1	SW2	SW3	Z/Z1	Y/Y1
12	17	17	10	12	9	19	19.2	3.2	22	5	10	2.5	7
16	16	17	13	12	9	23	20.5	3	22	5	10	6.6	2.4
20	18	19	16	16	12.5	27	22.7	4	30	7	13	9.3	3
25	21	21	15	16	12.5	30	24	5	30	9	17	9.3	3

Piston Ø	MK	Wi
12	0,10	±3,9°
16	0,15	±3,2°
20	0,25	±2,5°
25	0,40	±2,2°

MK = max. torque at piston rod
Wi = angle of rotation of piston rod

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, external thread

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a13

Standards	ISO 6432
Compressed air connection	internal thread
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20°C / +75°C
Medium temperature min./max.	-20°C / +75°C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel, hardened
Piston	Aluminum
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

Technical Remarks

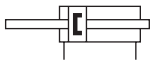
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		**[mm]**	**10**	**12**	**16**	**20**	**25**
Retracting piston force		[N]	48	64	130	195	259
Extending piston force		[N]	48	64	130	195	259
Impact energy		[J]	0.04	0.07	0.14	0.23	0.35
Weight	0 mm stroke	[kg]	0.045	0.058	0.07	0.122	1.168
	+10 mm stroke	[kg]	0.004	0.007	0.007	0.009	0.012
Stroke max.		[mm]	500	500	500	500	500

Piston rod cylinders → Standard cylinders

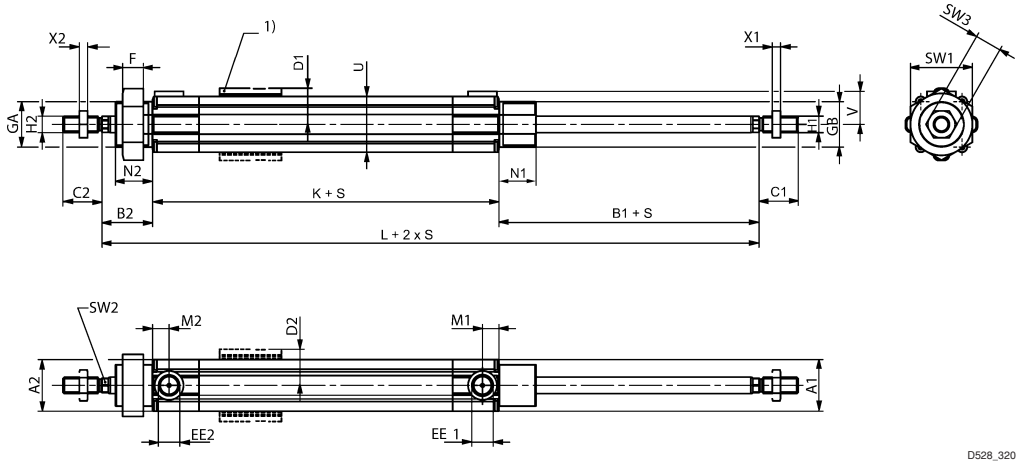
Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, external thread

	Piston Ø Piston rod thread Ports Cylinder outer thread	10 M4 M5 M12x1,25	12 M6 M5 M16x1,5	16 M6 M5 M16x1,5	20 M8 G 1/8 M22x1,5	25 M10x1,25 G 1/8 M22x1,5
	Stroke 10	**R480052371**	R480052416	R412001301	R412001401	R412001501
	25	R480052372	R480052417	R412001304	R412001404	R412001504
	50	R480052373	R480052418	R412001309	R412001409	R412001509
	80	R480052374	R480052419	R412001315	R412001415	R412001515
	100	R480052375	R480052420	R412001319	R412001419	R412001519
	125	R480052376	R480052421	R412001324	R412001424	R412001524
	160	R480052377	R480052422	R412001331	R412001431	R412001531
	200	R480052378	R480052423	R412001339	R412001439	R412001539
	250	R480052379	R480052424	R412001349	R412001449	R412001549
	320	R480052380	R480052425	R412001363	R412001463	R412001563
	400	R480052381	R480052426	R412001379	R412001479	R412001579
	500	R480158040	R480052427	R412001399	R412001499	R412001599

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Piston Ø 10 - 25



1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides, Ø 10 mm at 2 sides) possible
S = stroke

Piston Ø	A1/A2	B1	B2	D1/D2	C1 –2/ C2 –2	EE1/EE2	F	GA/GB	H1/H2	K	L	M1/M2
10	15	16	16	12.55	11	M5	7	M12x1,25	M4	46	78	9
12	19	22	22	14.5	15	M5	8	M16x1,5	M6	46	90	8
16	21	23	22	15.5	15	M5	8	M16x1,5	M6	56	101	6
20	25	25	24	17.5	19	G 1/8	10	M22x1,5	M8	68	118	8
25	28.5	29	28	19.25	21	G 1/8	10	M22x1,5	M10x1,25	70	127	8

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, external thread

Piston Ø	N1/N2	U	V	X1/X2	SW1	SW2	SW3						
10	12	18	12	2.2	17	3	7						
12	17	19	14	3.2	22	5	10						
16	16	23	13.5	3	22	5	10						
20	18	27	17.5	4	30	7	13						
25	21	30	18	5	30	9	17						

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, non-rotating, external thread

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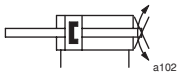


a102

Standards	ISO 6432
Compressed air connection	internal thread
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20 °C / +75 °C
Medium temperature min./max.	-20 °C / +75 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel, hardened
Piston	Aluminum
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

Technical Remarks

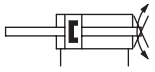
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		[mm]	10	12	16	20	25
Retracting piston force		[N]	48	64	130	195	259
Extending piston force		[N]	48	64	130	195	259
Impact energy		[J]	0.04	0.07	0.14	0.23	0.35
Weight	0 mm stroke	[kg]	0.045	0.058	0.07	0.122	1.168
	+10 mm stroke	[kg]	0.004	0.007	0.007	0.009	0.012
Stroke max.		[mm]	500	500	500	500	500

Piston rod cylinders → Standard cylinders

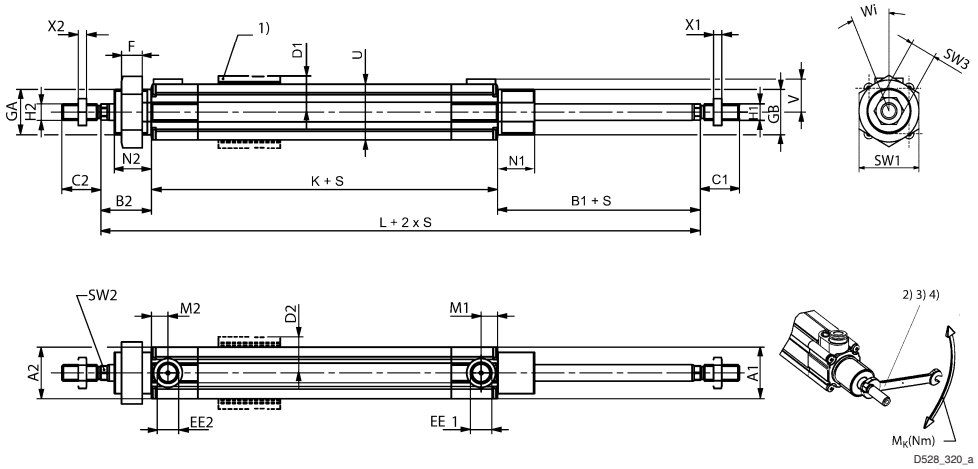
Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, non-rotating, external thread

	Piston Ø Piston rod thread Ports Cylinder outer thread Torque for torsion protection, max.	10 M4 M5 M12x1,25 0.07	12 M6 M5 M16x1,5 0.1	16 M6 M5 M16x1,5 0.15	20 M8 G 1/8 M22x1,5 0.25	25 M10x1,25 G 1/8 M22x1,5 0.4
	Stroke 10	R480052347	R480052442	R412001901	R412002001	R412002101
	25	R480052348	R480052443	R412001904	R412002004	R412002104
	50	R480052349	R480052444	R412001909	R412002009	R412002109
	80	R480052350	R480052445	R412001915	R412002015	R412002115
	100	R480052351	R480052446	R412001919	R412002019	R412002119
	125	R480052352	R480052447	R412001924	R412002024	R412002124
	160	R480052353	R480052448	R412001931	R412002031	R412002131
	200	R480052354	R480052449	R412001939	R412002039	R412002139
	250	R480052355	R480052450	R412001949	R412002049	R412002149
	320	R480052356	R480052451	R412001963	R412002063	R412002163
	400	R480052357	R480052452	R412001979	R412002079	R412002179
	500	R480158041	R480052453	R412001999	R412002099	R412002199

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Piston Ø 10 - 25



1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides, Ø 10 mm at 2 sides) possible
2) Do not exceed the given max. torque M-K of the piston rod or else the non-rotating function may not work.
3) When assembling piston rod mountings, the piston rod must be secured with a tool to prevent twisting.
4) View without hexagon nut on piston rod and cylinder front end cover
S = stroke

Piston Ø	A1/A2	B1	B2	D1/D2	C1 –2/ C2 –2	EE1/EE2	F	GA/GB	H1/H2	K	L	M1/M2
10	15	16	16	12.55	11	M5	7	M12x1,25	M4	46	78	9
12	19	22	22	14.5	15	M5	8	M16x1,5	M6	46	90	8

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, non-rotating, external thread

Piston Ø	A1/A2	B1	B2	D1/D2	C1 –2/ C2 –2	EE1/EE2	F	GA/GB	H1/H2	K	L	M1/M2
16	21	23	22	15.5	15	M5	8	M16x1,5	M6	56	101	6
20	25	25	24	17.5	19	G 1/8	10	M22x1,5	M8	68	118	8
25	28.5	29	28	19.25	21	G 1/8	10	M22x1,5	M10x1,25	70	127	8

Piston Ø	N1/N2	U	V	X1/X2	SW1	SW2	SW3	MK	Wi				
10	12	18	12	2.2	17	3	7	0,07	±4°				
12	17	19	14	3.2	22	5	10	0,10	±3,9°				
16	16	23	13.5	3	22	5	10	0,15	±3,2°				
20	18	27	17.5	4	30	7	13	0,25	±2,5°				
25	21	30	18	5	30	9	17	0,40	±2,2°				

MK = max. torque at piston rod
Wi = angle of rotation of piston rod

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, external thread

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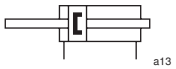


a13

Standards	ISO 6432
Compressed air connection	push-in fitting
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20°C / +75°C
Medium temperature min./max.	-20°C / +75°C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel, hardened
Piston	Aluminum
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

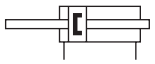
Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		**[mm]**	**10**	**12**	**16**	**20**	**25**
Retracting piston force		[N]	48	64	130	195	259
Extending piston force		[N]	48	64	130	195	259
Impact energy		[J]	0.04	0.07	0.14	0.23	0.35
Weight	0 mm stroke	[kg]	0.045	0.058	0.07	0.122	0.168
	+10 mm stroke	[kg]	0.004	0.007	0.007	0.009	0.012
Stroke max.		[mm]	500	500	500	500	500

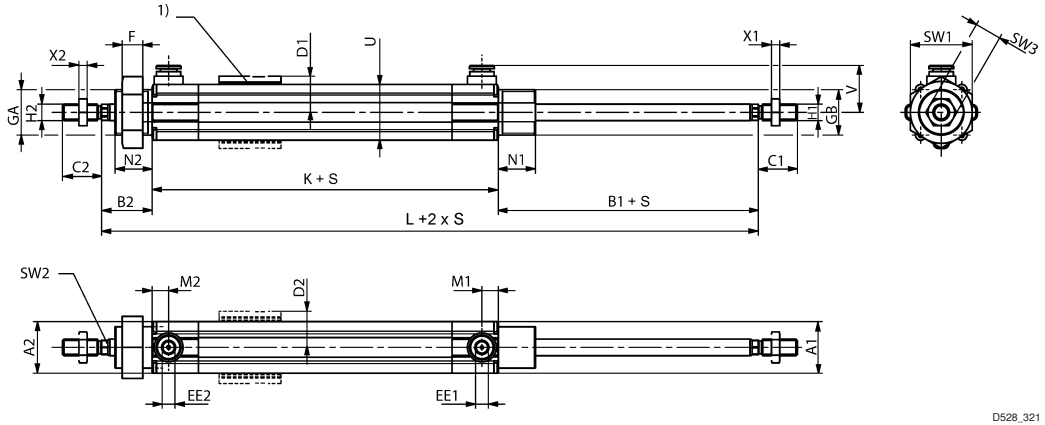
Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, external thread

	Piston Ø Piston rod thread Ports Cylinder outer thread	10 M4 Ø 4 M12x1,25	12 M6 Ø 4 M16x1,5	16 M6 Ø 4 M16x1,5	20 M8 Ø 6 M22x1,5	25 M10x1,25 Ø 6 M22x1,5
	Stroke 10	R480052383	R480052429	R412001001	R412001101	R412001201
	25	R480052384	R480052430	R412001004	R412001104	R412001204
	50	R480052385	R480052431	R412001009	R412001109	R412001209
	80	R480052386	R480052432	R412001015	R412001115	R412001215
	100	R480052387	R480052433	R412001019	R412001119	R412001219
	125	R480052388	R480052434	R412001024	R412001124	R412001224
	160	R480052389	R480052435	R412001031	R412001131	R412001231
	200	R480052390	R480052436	R412001039	R412001139	R412001239
	250	R480052391	R480052437	R412001049	R412001149	R412001249
	320	R480052392	R480052438	R412001063	R412001163	R412001263
	400	R480052393	R480052439	R412001079	R412001179	R412001279
	500	R480158042	R480052440	R412001099	R412001199	R412001299

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Piston Ø 10 - 25



1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides) possible
S = stroke

Piston Ø	A1/A2	B1	B2	C1 –2/ C2 –2	D1/D2	EE1/EE2	F	GA/GB	H1/H2	K	L	M1/M2
10	15	16	16	11	12.55	Ø 4	7	M12x1,25	M4	46	78	9
12	19	22	22	15	14.5	Ø 4	8	M16x1,5	M6	46	90	8
16	21	23	22	15	15.5	Ø 4	8	M16x1,5	M6	56	101	6
20	25	25	24	19	17.5	Ø 6	10	M22x1,5	M8	68	118	8
25	28.5	29	28	21	19.25	Ø 6	10	M22x1,5	M10x1,25	70	127	8

Piston Ø	N1/N2	U	V	X1/X2	SW1	SW2	SW3						
10	12	18	18.7	2.2	17	3	7						

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, external thread

Piston Ø	N1/N2	U	V	X1/X2	SW1	SW2	SW3						
12	17	19	19.2	3.2	22	5	10						
16	16	23	20.5	3	22	5	10						
20	18	27	22.7	4	30	7	13						
25	21	30	24	5	30	9	17						

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, non-rotating, external thread

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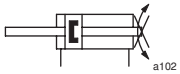


a102

Standards	ISO 6432
Compressed air connection	push-in fitting
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20 °C / +75 °C
Medium temperature min./max.	-20 °C / +75 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel, hardened
Piston	Aluminum
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

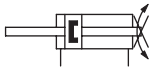
Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		[mm]	10	12	16	20	25
Retracting piston force		[N]	48	64	130	195	259
Extending piston force		[N]	48	64	130	195	259
Impact energy		[J]	0.04	0.07	0.14	0.23	0.35
Weight	0 mm stroke	[kg]	0.045	0.058	0.07	0.122	0.168
	+10 mm stroke	[kg]	0.004	0.007	0.007	0.009	0.012
Stroke max.		[mm]	500	500	500	500	500

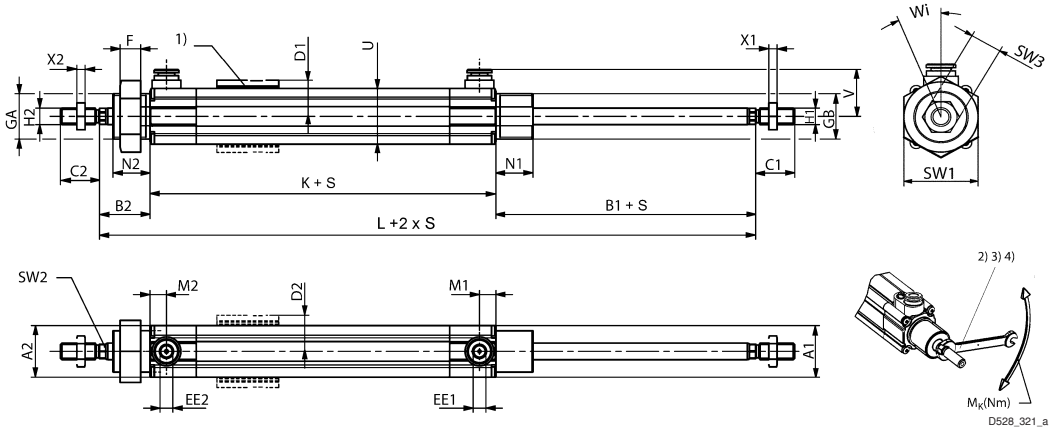
Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, non-rotating, external thread

	Piston Ø Piston rod thread Ports Cylinder outer thread Torque for torsion protection, max.	10 M4 Ø 4 M12x1,25 0.07	12 M6 Ø 4 M16x1,5 0.1	16 M6 Ø 4 M16x1,5 0.15	20 M8 Ø 6 M22x1,5 0.25	25 M10x1,25 Ø 6 M22x1,5 0.4
	Stroke 10	R480052359	R480052455	R412001601	R412001701	R412001801
	25	R480052360	R480052456	R412001604	R412001704	R412001804
	50	R480052361	R480052457	R412001609	R412001709	R412001809
	80	R480052362	R480052458	R412001615	R412001715	R412001815
	100	R480052363	R480052459	R412001619	R412001719	R412001819
	125	R480052364	R480052460	R412001624	R412001724	R412001824
	160	R480052365	R480052461	R412001631	R412001731	R412001831
	200	R480052366	R480052462	R412001639	R412001739	R412001839
	250	R480052367	R480052463	R412001649	R412001749	R412001849
	320	R480052368	R480052464	R412001663	R412001763	R412001863
	400	R480052369	R480052465	R412001679	R412001779	R412001879
	500	R480158043	R480052466	R412001699	R412001799	R412001899

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Piston Ø 10 - 25



1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides, Ø 10 mm at 2 sides) possible
2) Do not exceed the given max. torque M-K of the piston rod or else the non-rotating function may not work.
3) When assembling piston rod mountings, the piston rod must be secured with a tool to prevent twisting.
4) View without hexagon nut on piston rod and cylinder front end cover
S = stroke

Piston Ø	A1/A2	B1	B2	C1 –2/ C2 –2	D1/D2	EE1/EE2	F	GA/GB	H1/H2	K	L	M1/M2
10	15	16	16	11	12.55	Ø 4	7	M12x1,25	M4	46	78	9
12	19	22	22	15	14.5	Ø 4	8	M16x1,5	M6	46	90	8
16	21	23	22	15	15.5	Ø 4	8	M16x1,5	M6	56	101	6

Mini cylinder, ISO 6432, series OCT

► Ø 10 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, non-rotating, external thread

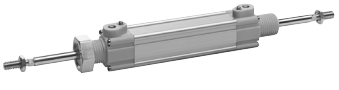
Piston Ø	A1/A2	B1	B2	C1 –2/ C2 –2	D1/D2	EE1/EE2	F	GA/GB	H1/H2	K	L	M1/M2
20	25	25	24	19	17.5	Ø 6	10	M22x1,5	M8	68	118	8
25	28.5	29	28	21	19.25	Ø 6	10	M22x1,5	M10x1,25	70	127	8

Piston Ø	N1/N2	U	V	X1/X2	SW1	SW2	SW3	MK	Wi				
10	12	18	18.7	2.2	17	3	7	0,07	±4°				
12	17	19	19.2	3.2	22	5	10	0,10	±3,9°				
16	16	23	20.5	3	22	5	10	0,15	±3,2°				
20	18	27	22.7	4	30	7	13	0,25	±2,5°				
25	21	30	24	5	30	9	17	0,40	±2,2°				

MK = max. torque at piston rod
Wi = angle of rotation of piston rod

Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, external thread



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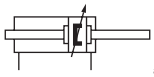


a18

Standards	ISO 6432
Compressed air connection	internal thread
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20°C / +75°C
Medium temperature min./max.	-20°C / +75°C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

Technical Remarks

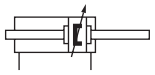
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		[mm]	12	16	20	25	
Retracting piston force		[N]	64	130	195	259	
Extending piston force		[N]	64	130	195	259	
Cushioning length		[mm]	10	10	13	16	
Cushioning energy		[J]	0.5	0.6	1.5	2.3	
Weight	0 mm stroke	[kg]	0.058	0.07	0.122	0.168	
	+10 mm stroke	[kg]	0.007	0.007	0.009	0.012	
Stroke max.		[mm]	500	500	500	500	

Piston rod cylinders → Standard cylinders

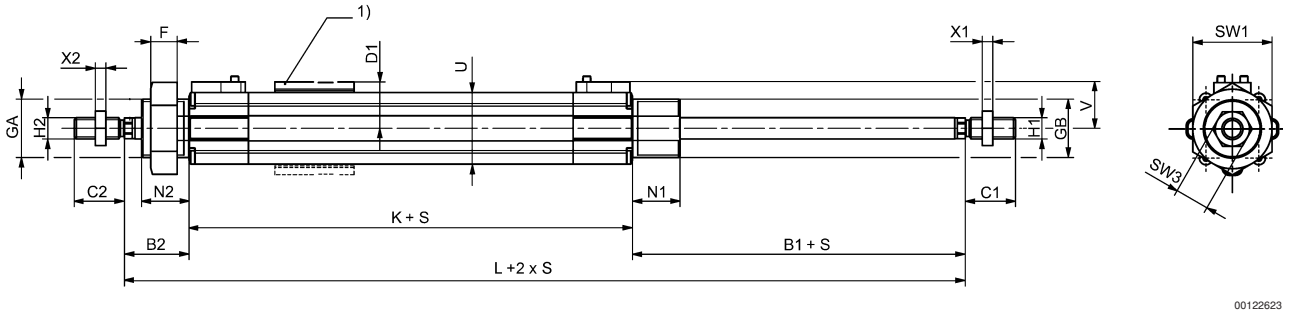
Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, external thread

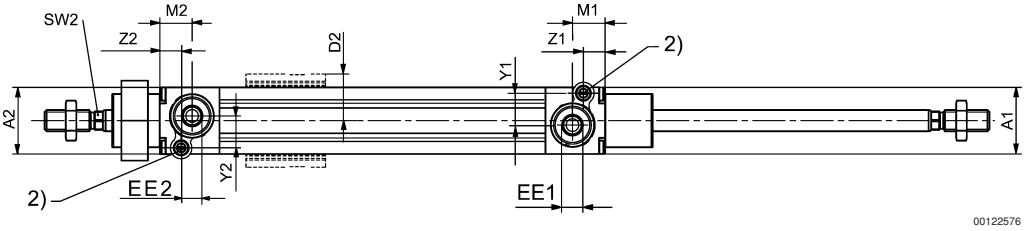
	Piston Ø Piston rod thread Ports Cylinder outer thread	12 M6 M5 M16x1,5	16 M6 M5 M16x1,5	20 M8 G 1/8 M22x1,5	25 M10x1,25 G 1/8 M22x1,5	
	Stroke 10	R480052469	R412002501	R412002601	**R412002701**	
	25	R480052470	R412002504	R412002604	R412002704	
	50	R480052471	R412002509	R412002609	R412002709	
	80	R480052472	R412002515	R412002615	R412002715	
	100	R480052473	R412002519	R412002619	R412002719	
	125	R480052474	R412002524	R412002624	R412002724	
	160	R480052475	R412002531	R412002631	R412002731	
	200	R480052476	R412002539	R412002639	R412002739	
	250	R480052477	R412002549	R412002649	R412002749	
	320	R480052478	R412002563	R412002663	R412002763	
	400	R480052479	R412002579	R412002679	R412002779	
	500	R480052480	R412002599	R412002699	R412002799	

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Piston Ø 12 - 25



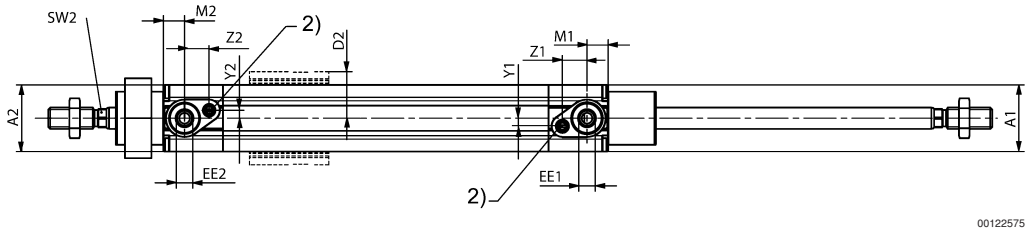
Piston Ø 12



Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, external thread

Piston Ø 16 - 25



1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides) possible
2) Slot for cushioning screw 0.8 mm
S = stroke

Piston Ø	A1/A2	B1	B2	C1 –2/ C2 –2	D1/D2	EE1/EE2	F	GA/GB	H1/H2	K	L	M1/M2
12	19	22	22	15	14.5	M5	8	M16x1,5	M6	46	90	8
16	21	23	22	15	15.5	M5	8	M16x1,5	M6	56	101	6
20	25	25	24	19	17.5	G 1/8	10	M22x1,5	M8	68	118	8
25	28.5	29	28	21	19.25	G 1/8	10	M22x1,5	M10x1,5	70	127	8

Piston Ø	N1/N2	U	V	X1/X2	SW1	SW2	SW3	Z1/Z2	Y1/Y2				
12	17	19	14	3.2	22	5	10	5.5	7				
16	16	23	15.8	3	22	5	10	6.6	2.4				
20	18	27	17.5	4	30	7	13	9.3	3				
25	21	30	18.8	5	30	9	17	9.3	3				

Piston rod cylinders → Standard cylinders

Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, non-rotating, external thread

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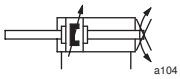


a104

Standards	ISO 6432
Compressed air connection	internal thread
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20 °C / +75 °C
Medium temperature min./max.	-20 °C / +75 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

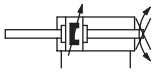
Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		[mm]	12	16	20	25	
Retracting piston force		[N]	64	130	195	259	
Extending piston force		[N]	64	130	195	259	
Cushioning length		[mm]	10	10	13	16	
Cushioning energy		[J]	0.5	0.6	1.5	2.3	
Weight	0 mm stroke	[kg]	0.058	0.07	0.122	0.168	
	+10 mm stroke	[kg]	0.007	0.007	0.009	0.012	
Stroke max.		[mm]	500	500	500	500	

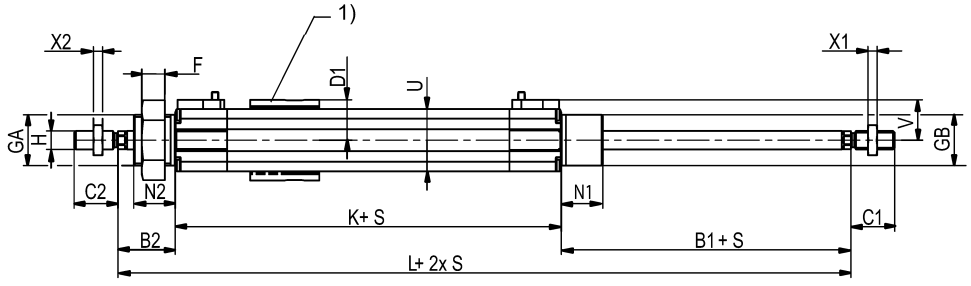
Mini cylinder, ISO 6432, series OCT

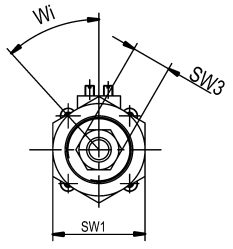
► Ø 12 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, non-rotating, external thread

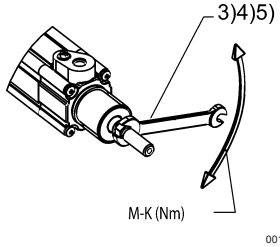
	Piston Ø Piston rod thread Ports Cylinder outer thread Torque for torsion protection, max.	12 M6 M5 M16x1,5 0.1	16 M6 M5 M16x1,5 0.15	20 M8 G 1/8 M22x1,5 0.25	25 M10x1,25 G 1/8 M22x1,5 0.4	
	Stroke 10	R480052495	R412003101	R412003201	R412003301	
	25	R480052496	R412003104	R412003204	R412003304	
	50	R480052497	R412003109	R412003209	R412003309	
	80	R480052498	R412003115	R412003215	R412003315	
	100	R480052499	R412003119	R412003219	**R412003319**	
	125	R480052500	R412003124	R412003223	R412003324	
	160	R480052501	R412003131	R412003231	R412003331	
	200	R480052502	R412003139	R412003239	R412003339	
	250	R480052503	R412003149	R412003249	R412003349	
	320	R480052504	R412003163	R412003263	R412003363	
	400	R480052505	R412003179	R412003279	R412003379	
	500	R480052506	R412003199	R412003299	R412003399	

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Piston Ø 12 - 25







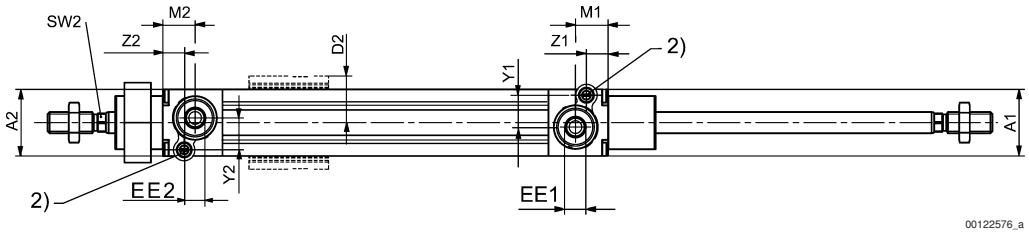
00130709

Piston rod cylinders → Standard cylinders

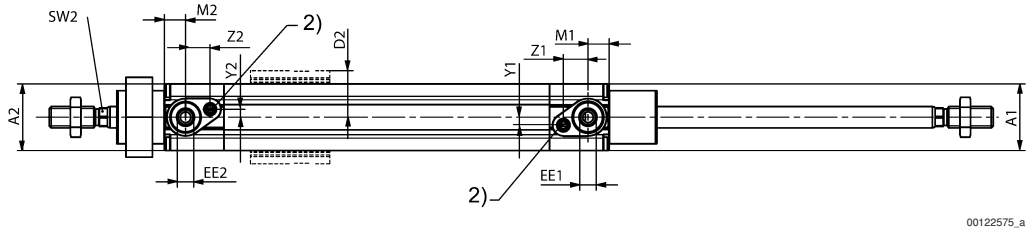
Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, non-rotating, external thread

Piston Ø 12



Piston Ø 16 - 25



1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides) possible
2) Slot for cushioning screw 0.8 mm
3) Do not exceed the given max. torque M-K of the piston rod or the non-rotating function may not work.
4) When assembling piston rod mountings, the piston rod must be secured with a tool to prevent twisting.
5) View without hexagon nut on piston rod and cylinder front end cover
S = stroke

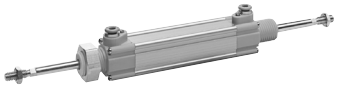
Piston Ø	A1/A2	B1	B2	C1 –2/ C2 –2	D1/D2	EE1/EE2	F	GA/GB	H1/H2	K	L	M1/M2
12	19	22	22	15	14.5	M5	8	M16x1,5	M6	46	90	8
16	21	23	22	15	15.5	M5	8	M16x1,5	M6	56	101	6
20	25	25	24	19	17.5	G 1/8	10	M22x1,5	M8	68	118	8
25	28.5	29	28	21	19.25	G 1/8	10	M22x1,5	M10x1,25	70	127	8

Piston Ø	N1/N2	U	V	X1/X2	SW1	SW2	SW3	Z1/Z2	Y1/Y2	MK	Wi		
12	17	19	14	3.2	22	5	10	5.5	7	0.1	±3,9°		
16	16	23	15.8	3	22	5	10	6.6	2.4	0.15	±3,2°		
20	18	27	17.5	4	30	7	13	9.3	3	0.25	±2,5°		
25	21	30	18.8	5	30	9	17	9.3	3	0.4	±2,2°		

MK = max. torque at piston rod
Wi = angle of rotation of piston rod

Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, external thread



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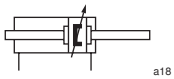


a18

Standards	ISO 6432
Compressed air connection	push-in fitting
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20°C / +75°C
Medium temperature min./max.	-20°C / +75°C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

Technical Remarks

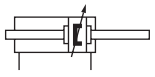
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		[mm]	12	16	20	25	
Retracting piston force		[N]	64	130	195	259	
Extending piston force		[N]	64	130	195	259	
Cushioning length		[mm]	10	10	13	16	
Cushioning energy		[J]	0.5	0.6	1.5	2.3	
Weight	0 mm stroke	[kg]	0.058	0.07	0.122	0.168	
	+10 mm stroke	[kg]	0.007	0.007	0.009	0.012	
Stroke max.		[mm]	500	500	500	500	

Piston rod cylinders → Standard cylinders

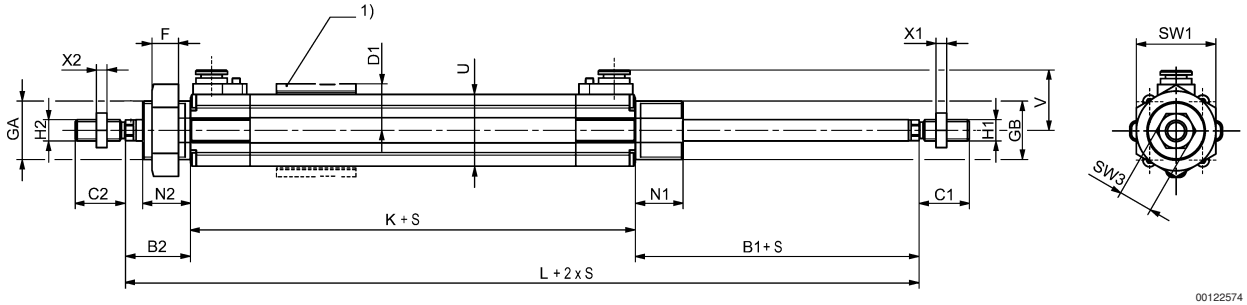
Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, external thread

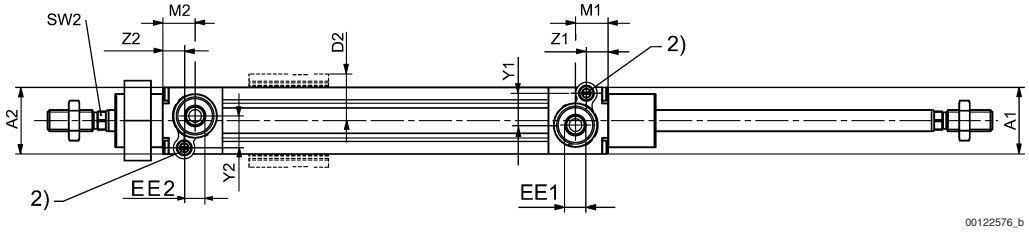
	Piston Ø Piston rod thread Ports Cylinder outer thread	12 M6 Ø 4 M16x1,5	16 M6 Ø 4 M16x1,5	20 M8 Ø 6 M22x1,5	25 M10x1,25 Ø 6 M22x1,5	
	Stroke 10	R480052482	R412002201	R412002301	R412002401	
	25	R480052483	R412002204	R412002304	R412002404	
	50	R480052484	R412002209	R412002309	R412002409	
	80	R480052485	R412002215	R412002315	R412002415	
	100	R480052486	R412002219	R412002319	R412002419	
	125	R480052487	R412002224	R412002324	R412002424	
	160	R480052488	R412002231	R412002331	R412002431	
	200	R480052489	R412002239	R412002339	R412002439	
	250	R480052490	R412002249	R412002349	R412002449	
	320	R480052491	R412002263	R412002363	R412002463	
	400	R480052492	R412002279	R412002379	R412002479	
	500	R480052493	R412002299	R412002399	R412002499	

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Piston Ø 12 - 25



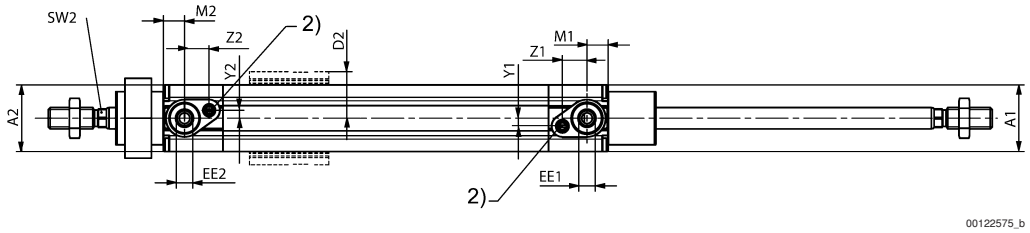
Piston Ø 12



Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, external thread

Piston Ø 16 - 25



1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides) possible
2) Slot for cushioning screw 0.8 mm
S = stroke

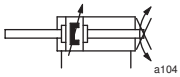
Piston Ø	A1/A2	B1	B2	C1 –2/C2 –2	D1/D2	EE1/EE2	F	GA/GB	H1/H2	K	L	M1/M2
12	19	22	22	15	14.5	Ø 4	8	M16x1,5	M6	46	90	8
16	21	23	22	15	15.5	Ø 4	8	M16x1,5	M6	56	101	6
20	25	25	24	19	17.5	Ø 6	10	M22x1,5	M8	68	118	8
25	28.5	29	28	21	19.25	Ø 6	10	M22x1,5	M10x1,25	70	127	8

Piston Ø	N1/N2	U	V	X1/X2	SW1	SW2	SW3	Z1/Z2	Y1/Y2				
12	17	19	19.2	3.2	22	5	10	5.5	7				
16	16	23	20.5	3	22	5	10	6.6	2.4				
20	18	27	22.7	4	30	7	13	9.3	3				
25	21	30	24	5	30	9	17	9.3	3				

Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, non-rotating, external thread

P528_320



a104

Standards	ISO 6432
Compressed air connection	push-in fitting
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20 °C / +75 °C
Medium temperature min./max.	-20 °C / +75 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

Technical Remarks

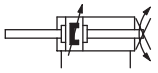
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		**[mm]**	**12**	**16**	**20**	**25**	
Retracting piston force		[N]	64	130	195	259	
Extending piston force		[N]	64	130	195	259	
Cushioning length		[mm]	10	10	13	16	
Cushioning energy		[J]	0.5	0.6	1.5	2.3	
Weight	0 mm stroke	[kg]	0.058	0.07	0.122	0.168	
	+10 mm stroke	[kg]	0.007	0.007	0.009	0.012	
Stroke max.		[mm]	500	500	500	500	

Piston rod cylinders → Standard cylinders

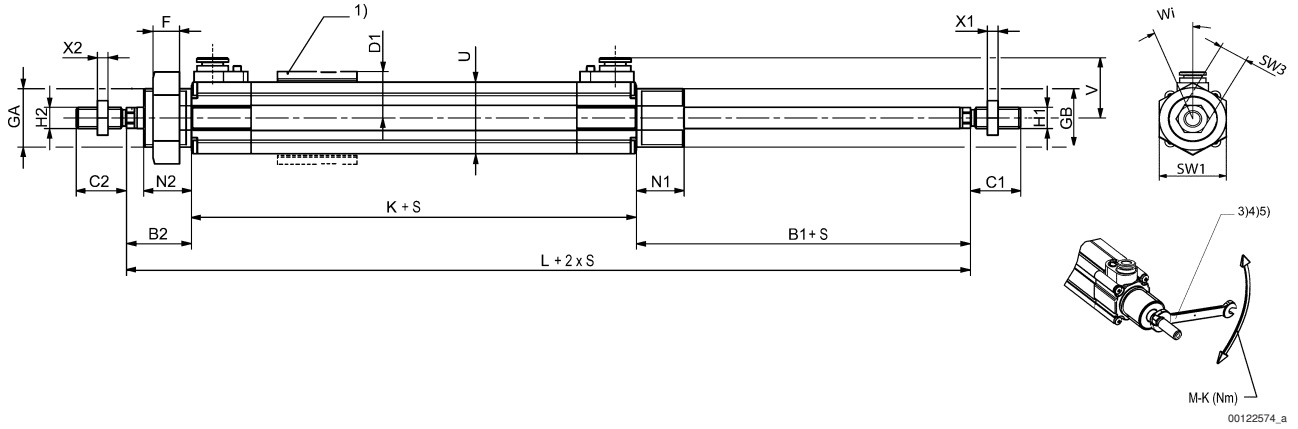
Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, non-rotating, external thread

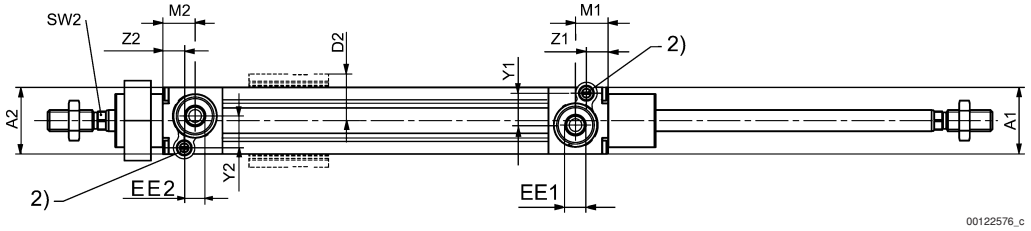
	Piston Ø Piston rod thread Ports Cylinder outer thread Torque for torsion protection, max.	12 M6 Ø 4 M16x1,5 0.1	16 M6 Ø 4 M16x1,5 0.15	20 M8 Ø 6 M22x1,5 0.25	25 M10x1,25 Ø 6 M22x1,5 0.4	
	Stroke 10	R480052508	R412002801	R412002901	R412003001	
	25	R480052509	R412002804	R412002904	R412003004	
	50	R480052510	R412002809	R412002909	R412003009	
	80	R480052511	R412002815	R412002915	R412003015	
	100	R480052512	R412002819	R412002919	R412003019	
	125	R480052513	R412002824	R412002924	R412003024	
	160	R480052514	R412002831	R412002931	R412003031	
	200	R480052515	R412002839	R412002939	R412003039	
	250	R480052516	R412002849	R412002949	R412003049	
	320	R480052517	R412002863	R412002963	R412003063	
	400	R480052518	R412002879	R412002979	R412003079	
	500	R480052519	R412002899	R412002999	R412003099	

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Piston Ø 12 - 25



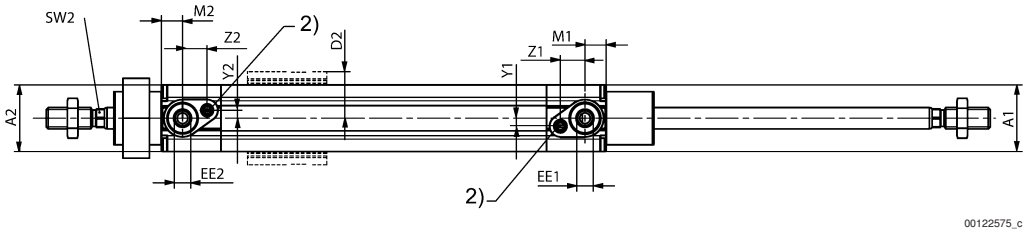
Piston Ø 12



Mini cylinder, ISO 6432, series OCT

► Ø 12 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, non-rotating, external thread

Piston Ø 16 - 25



1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides) possible
2) Slot for cushioning screw 0.8 mm
3) Do not exceed the given max. torque M-K of the piston rod or the non-rotating function may not work.
4) When assembling piston rod mountings, the piston rod must be secured with a tool to prevent twisting.
5) View without hexagon nut on piston rod and cylinder front end cover
S = stroke

Piston Ø	A1/A2	B1	B2	C1 –2/C2 –2	D1/D2	EE1/EE2	F	GA/GB	H1/H2	K	L	M1/M2
12	19	22	22	15	14.5	Ø 4	8	M16x1,5	M6	46	90	8
16	21	23	22	15	15.5	Ø 4	8	M16x1,5	M6	56	101	6
20	25	25	24	19	17.5	Ø 6	10	M22x1,5	M8	68	118	8
25	28.5	29	28	21	19.25	Ø 6	10	M22x1,5	M10x1,25	70	127	8

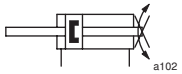
Piston Ø	N1/N2	U	V	X1/X2	SW1	SW2	SW3	Z1/Z2	Y1/Y2	MK	Wi		
12	17	19	19.2	3.2	22	5	10	5.5	7	0.1	±3,9°		
16	16	23	20.5	3	22	5	10	6.6	2.4	0.15	±3,2°		
20	18	27	22.7	4	30	7	13	9.3	3	0.25	±2,5°		
25	21	30	24	5	30	9	17	9.3	3	0.4	±2,2°		

MK = max. torque at piston rod
Wi = angle of rotation of piston rod

Mini cylinder, ISO 6432, series OCT

► Ø 16 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, hollow, non-rotating, external thread

00119237_a



a102

Standards	ISO 6432
Compressed air connection	push-in fitting
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20 °C / +75 °C
Medium temperature min./max.	-20 °C / +75 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Piston	Aluminum
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

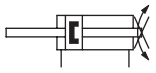
Technical Remarks
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
■ The oil content of air pressure must remain constant during the life cycle.
■ Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
■ Clamping piece for magnetic field sensor necessary

Piston Ø		**[mm]**	**16**	**25**			
Retracting piston force		[N]	130	259			
Extending piston force		[N]	130	259			
Impact energy		[J]	0.14	0.35			
Weight	0 mm stroke	[kg]	0.083	0.216			
	+10 mm stroke	[kg]	0.008	0.018			
Stroke max.		[mm]	250	250			

Piston rod cylinders → Standard cylinders

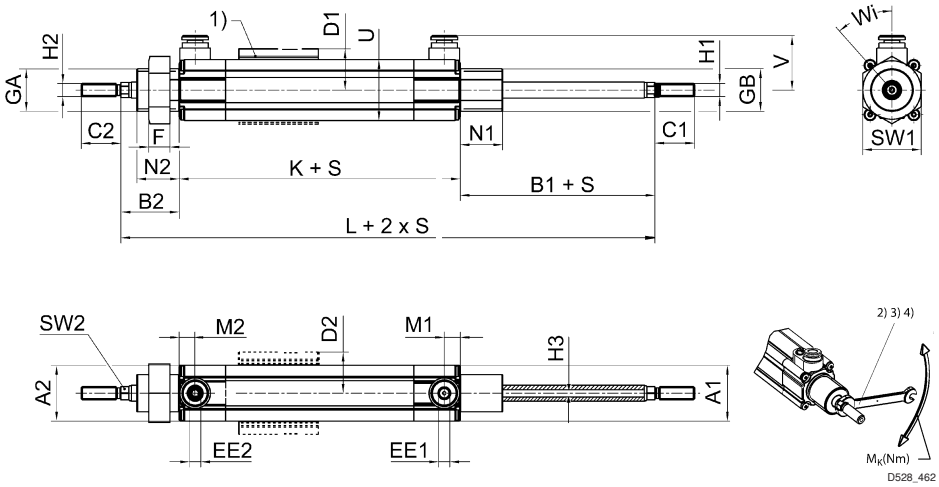
Mini cylinder, ISO 6432, series OCT

► Ø 16 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, hollow, non-rotating, external thread

	Piston Ø Piston rod thread Ports Cylinder outer thread Torque for torsion protection, max.	16 M5 Ø 4 M16x1,5 0.15	25 G 1/8 Ø 6 M22x1,5 0.4			
	Stroke 10	R412003950	R412003961			
	25	R412003951	R412003962			
	50	R412003952	R412003963			
	80	R412003954	R412003964			
	100	R412003955	R412003965			
	125	R412003956	R412003966			
	160	R412003957	R412003967			
	200	R412003958	R412003968			
	250	R412003959	R412003969			

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Piston Ø 16 - 25



1) Clamp for sensor - installation at all 4 cylinder sides possible
2) Do not exceed the given max. torque M-K of the piston rod or else the non-rotating function may not work.
3) When assembling piston rod mountings, the piston rod must be secured with a tool to prevent twisting.
4) View without hexagon nut on piston rod and cylinder front end cover
S = stroke

Piston Ø	A1/A2	B1	B2	C1 –2/C2 –2	D1/D2	EE1/EE2	F	GA/GB	H1/H2	H3	K	L
16	21	23	22	15	15.5	Ø 4	8	M16x1,5	M5	2	56	101
25	28.5	29	28	21	19.25	Ø 6	10	M22x1,5	G 1/8	4	70	127

Mini cylinder, ISO 6432, series OCT

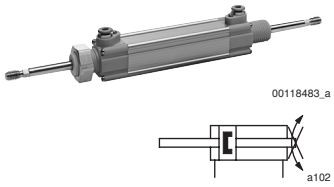
► Ø 16 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, hollow, non-rotating, external thread

Piston Ø	M1/M2	N1/N2	U	V	SW1	SW2	MK	Wi					
16	6	16	23	20.5	22	5	0.15	±3,2°					
25	8	21	30	24	30	9	0.4	±2,2°					

MK = max. torque at piston rod
Wi = angle of rotation of piston rod

Mini cylinder, ISO 6432, series OCT

► Ø 16 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, hollow, non-rotating, external thread



Standards	ISO 6432
Compressed air connection	push-in fitting
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20 °C / +75 °C
Medium temperature min./max.	-20 °C / +75 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Piston	Aluminum
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

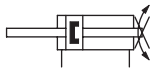
Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		**[mm]**	**16**	**25**			
Retracting piston force		[N]	130	259			
Extending piston force		[N]	130	259			
Cushioning length		[mm]	10	16			
Cushioning energy		[J]	0.6	2.3			
Weight	0 mm stroke	[kg]	0.07	0.168			
	+10 mm stroke	[kg]	0.0066	0.0123			
Stroke max.		[mm]	250	250			

Mini cylinder, ISO 6432, series OCT

► Ø 16 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, hollow, non-rotating, external thread

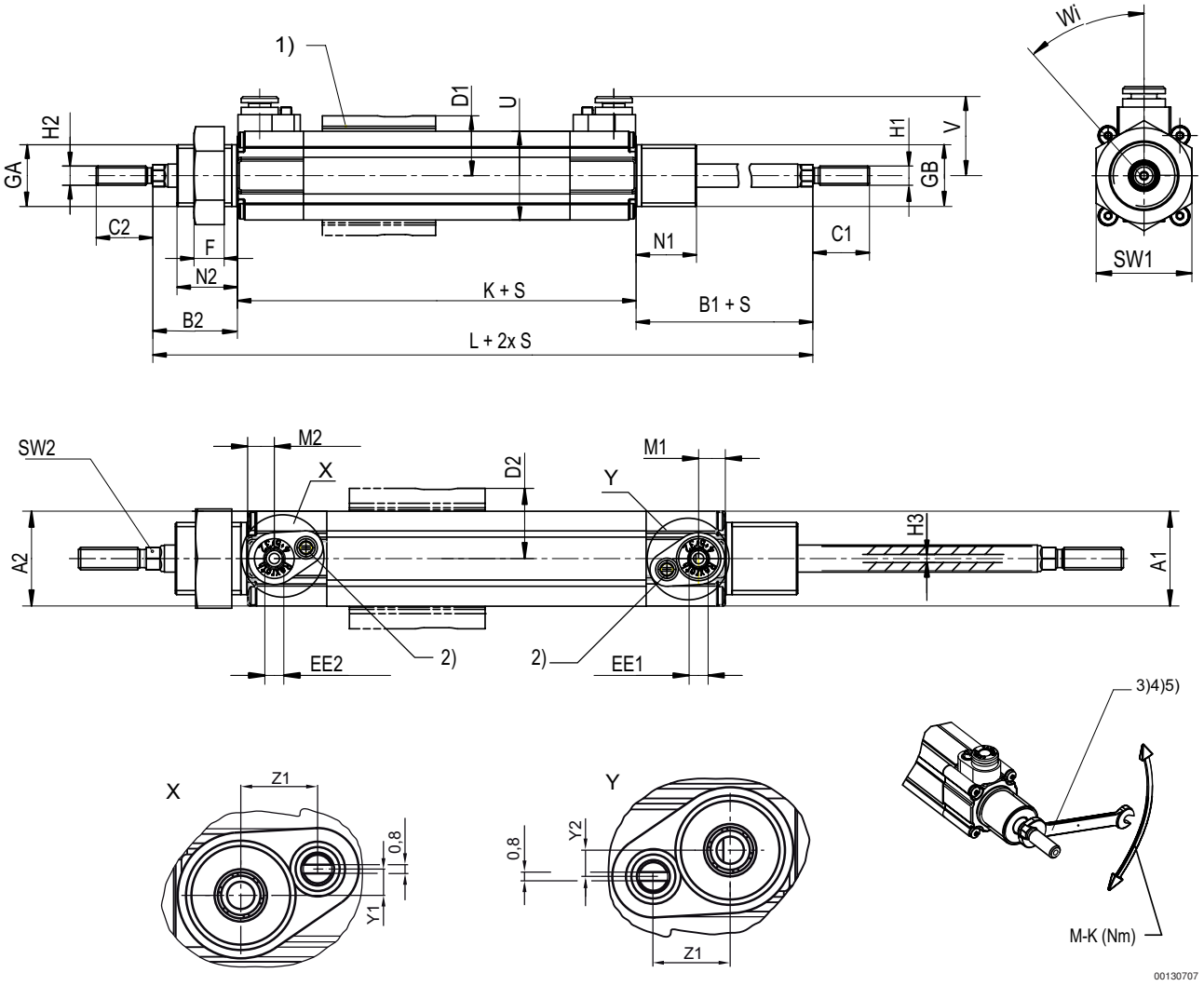
	Piston Ø **Piston rod thread** **Ports** **Cylinder outer thread** **Torque for torsion protection, max.**	**16** **M5** **Ø 4** **M16x1,5** **0.15**	**25** **G 1/8** **Ø 6** **M22x1,5** **0.4**			
	Stroke 10	R412004100	R412004109			
	25	R412004101	R412004110			
	50	R412004102	R412004111			
	80	R412004103	R412004112			
	100	R412004104	R412004113			
	125	R412004105	R412004114			
	160	R412004106	R412004115			
	200	R412004107	R412004116			
	250	R412004108	R412004117			

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Mini cylinder, ISO 6432, series OCT

► Ø 16 - 25 mm ► Ports: Ø 4 - Ø 6 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, hollow, non-rotating, external thread

Piston Ø 16 - 25



1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides) possible
2) Slot for cushioning screw 0.8 mm
3) Do not exceed the given max. torque M-K of the piston rod or the non-rotating function may not work.
4) When assembling piston rod mountings, the piston rod must be secured with a tool to prevent twisting.
5) View without hexagon nut on piston rod and cylinder front end cover
S = stroke

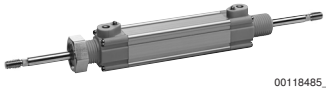
Piston Ø	A1/A2	B1	B2	C1 -1/C2 -2	D1/D2	EE1/EE2	F	GA/GB	H1/H2	H3	K	L
16	21	23	22	15	15.5	Ø 4	8	M16x1,5	M5	2	56	101
25	28.5	29	28	21	19.25	Ø 6	10	M22x1,5	G 1/8	4	70	127

Piston Ø	M1/M2	N1/N2	U	V	SW1	SW2	Y1/Y2	Z1/Z2	MK	Wi			
16	6	16	23	20.5	22	5	2,4	6.6	0,15	±3,2°			
25	8	21	30	24	30	9	3	9.3	0,40	±2,2°			

MK = max. torque at piston rod
Wi = angle of rotation of piston rod

Mini cylinder, ISO 6432, series OCT

► Ø 16 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, hollow, non-rotating, external thread



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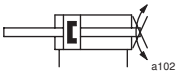


a102

Standards	ISO 6432
Compressed air connection	internal thread
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20 °C / +75 °C
Medium temperature min./max.	-20 °C / +75 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Piston	Aluminum
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

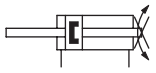
Technical Remarks
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
■ The oil content of air pressure must remain constant during the life cycle.
■ Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
■ Clamping piece for magnetic field sensor necessary

Piston Ø		**[mm]**	**16**	**25**			
Retracting piston force		[N]	130	259			
Extending piston force		[N]	130	259			
Cushioning length		[mm]	10	16			
Cushioning energy		[J]	0.6	2.3			
Weight	0 mm stroke	[kg]	0.083	0.216			
	+10 mm stroke	[kg]	0.008	0.018			
Stroke max.		[mm]	250	250			

Piston rod cylinders → Standard cylinders

Mini cylinder, ISO 6432, series OCT

► Ø 16 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, hollow, non-rotating, external thread

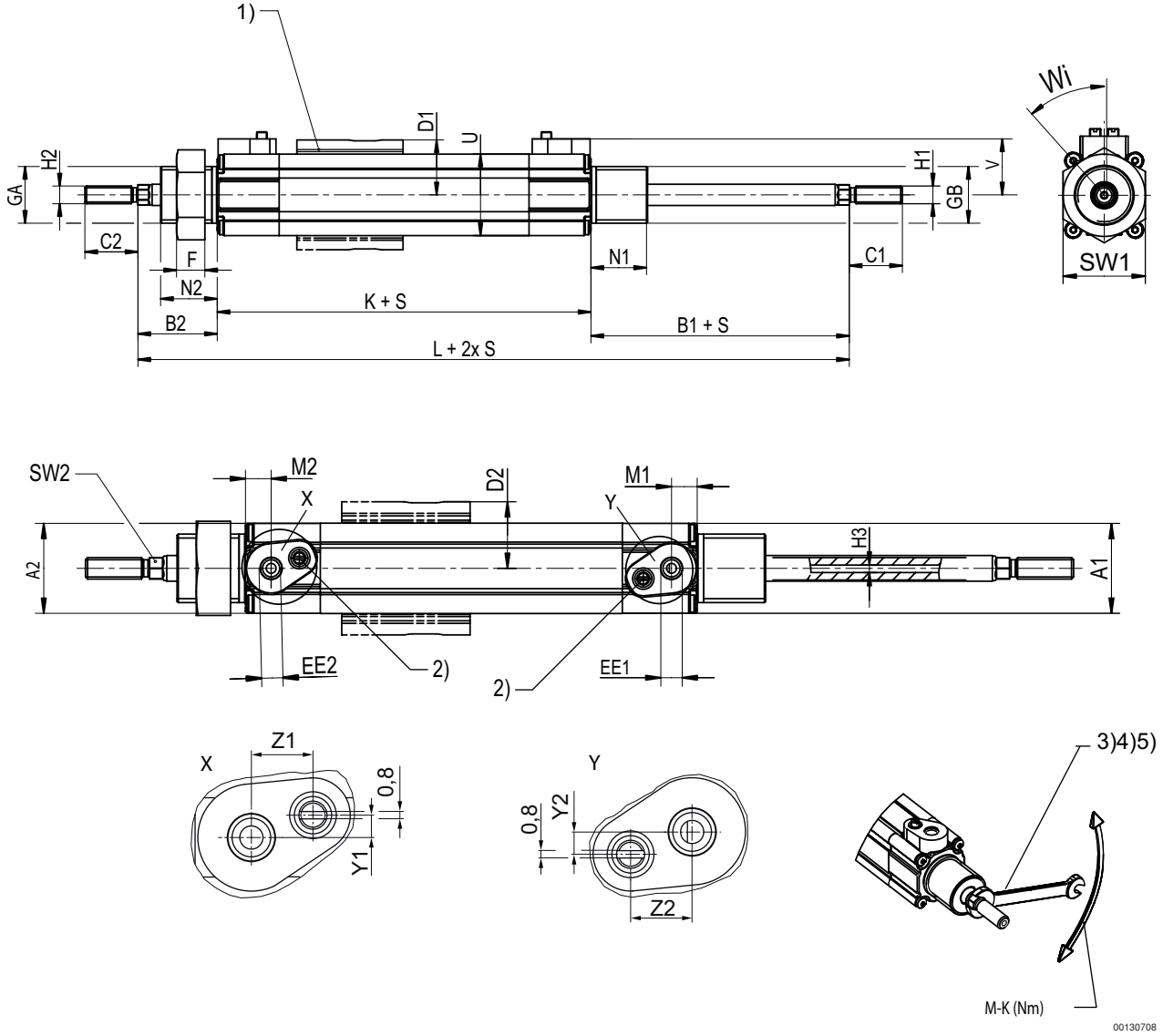
	Piston Ø Piston rod thread Ports Cylinder outer thread Torque for torsion protection, max.	16 M5 M5 M16x1,5 0.15	25 G 1/8 G 1/8 M22x1,5 0.4			
	Stroke 10	R412004118	R412004127			
	25	R412004119	R412004128			
	50	R412004120	**R412004129**			
	80	R412004121	R412004130			
	100	R412004122	R412004131			
	125	R412004123	R412004132			
	160	R412004124	R412004133			
	200	R412004125	R412004134			
	250	R412004126	R412004135			

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Mini cylinder, ISO 6432, series OCT

► Ø 16 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: pneumatic, adjustable ► piston rod: through, hollow, non-rotating, external thread

Piston Ø 16 - 25



1) Clamp for sensor - installation at all 4 cylinder sides (Ø 12 mm at 3 sides) possible
2) Slot for cushioning screw 0.8 mm
3) Do not exceed the given max. torque M-K of the piston rod or the non-rotating function may not work.
4) When assembling piston rod mountings, the piston rod must be secured with a tool to prevent twisting.
5) View without hexagon nut on piston rod and cylinder front end cover
S = stroke

Piston Ø	A1/A2	B1	B2	C1 –2/C2 –2	D1/D2	EE1/EE2	F	GA/GB	H1/H2	H3	K	L
16	21	23	22	15	15.5	M5	8	M16x1,5	M5	2	56	101
25	28.5	29	28	21	19.25	G 1/8	10	M22x1,5	G 1/8	4	70	127

Piston Ø	M1/M2	N1/N2	U	V	SW1	SW2	Y1/Y2	Z1/Z2	MK	Wi			
16	6	16	23	15.8	22	5	2.4	6.6	0,15	±3,2°			
25	8	21	30	18.8	30	9	3	9.3	0,40	±2,2°			

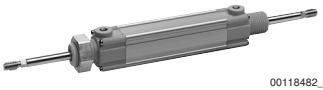
MK = max. torque at piston rod
Wi = angle of rotation of piston rod

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information

Piston rod cylinders → Standard cylinders

Mini cylinder, ISO 6432, series OCT

► Ø 16 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, hollow, non-rotating, external thread



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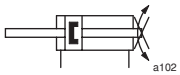


a102

Standards	ISO 6432
Compressed air connection	internal thread
Working pressure min./max.	1.5 bar / 10 bar
Ambient temperature min./max.	-20 °C / +75 °C
Medium temperature min./max.	-20 °C / +75 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Piston	Aluminum
Front cover	Polyarylamide
End cover	Polyarylamide
Seal	Polyurethane
Nut for cylinder mounting	Aluminum, anodized
Nut for piston rod	Stainless steel
Scraper	Polyester urethane rubber

Technical Remarks

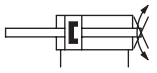
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		**[mm]**	**16**	**25**			
Retracting piston force		[N]	130	259			
Extending piston force		[N]	130	259			
Impact energy		[J]	0.14	0.35			
Weight	0 mm stroke	[kg]	0.07	0.168			
	+10 mm stroke	[kg]	0.0066	0.0123			
Stroke max.		[mm]	250	250			

Piston rod cylinders → Standard cylinders

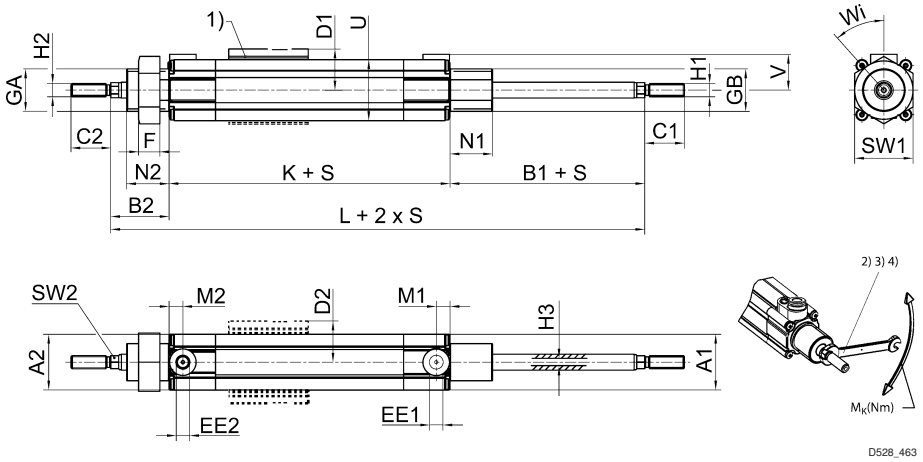
Mini cylinder, ISO 6432, series OCT

► Ø 16 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, hollow, non-rotating, external thread

	Piston Ø Piston rod thread Ports Cylinder outer thread Torque for torsion protection, max.	16 M5 M5 M16x1,5 0.15	25 G 1/8 G 1/8 M22x1,5 0.4			
	Stroke 10	R412003970	R412003979			
	25	R412003971	R412003980			
	50	R412003972	R412003981			
	80	R412003973	R412003982			
	100	R412003974	R412003983			
	125	R412003975	R412003984			
	160	R412003976	R412003985			
	200	R412003977	R412003986			
	250	R412003978	R412003987			

Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Piston Ø 16 - 25



1) Clamp for sensor - installation at all 4 cylinder sides possible
2) Do not exceed the given max. torque M-K of the piston rod or else the non-rotating function may not work.
3) When assembling piston rod mountings, the piston rod must be secured with a tool to prevent twisting.
4) View without hexagon nut on piston rod and cylinder front end cover
S = stroke

Piston Ø	A1/A2	B1	B2	C1 –2/C2 –2	D1/D2	EE1/EE2	F	GA/GB	H1/H2	H3	K	L
16	21	23	22	15	15.5	M5	8	M16x1,5	M5	2	56	101
25	28.5	29	28	21	19.25	G 1/8	10	M22x1,5	G 1/8	4	70	127

Piston Ø	M1/M2	N1/N2	U	V	SW1	SW2	MK	Wi					
16	6	16	23	13.5	22	5	0.15	±3,2°					

MK = max. torque at piston rod
Wi = angle of rotation of piston rod

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information

Mini cylinder, ISO 6432, series OCT

► Ø 16 - 25 mm ► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► cushioning: elastic ► piston rod: through, hollow, non-rotating, external thread

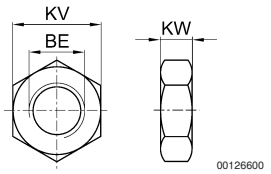
Piston Ø	M1/M2	N1/N2	U	V	SW1	SW2	MK	Wi					
25	8	21	30	17.5	30	9	0.4	±2,2°					

MK = max. torque at piston rod
Wi = angle of rotation of piston rod

ISO 6432, series OCT
Accessories

MR3 nut for cylinder mounting
► **OCT**

00106400

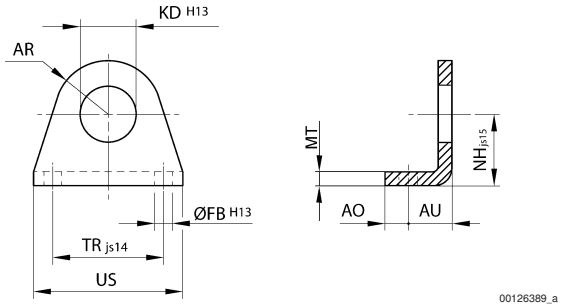


00126600

Part No.	Piston Ø	BE	KV	KW	Material	Surface	Weight [kg]			
R499000204	10	M12x1,25	17	7	Aluminum	anodized	0.003			
8915000384	12, 16	M16x1,5	22	8	Aluminum	anodized	0.005			
8915000374	20, 25	M22x1,5	30	10	Aluminum	anodized	0.011			

Foot mounting MS3
► **Cylinder mounting in accordance with ISO 6432**

00106404



00126389_a

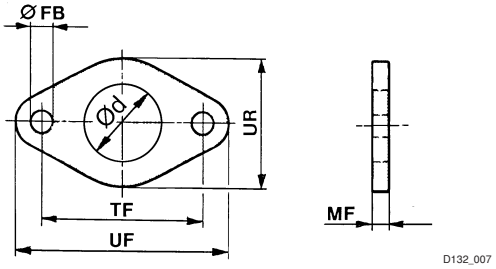
Part No.	Piston Ø	AO	AR	AU	Ø FB H13	Ø KD H13	MT	NH ±0,3 js15	TR js14	US	Material
1821332029	8, 10	5	10	11	4.5	12.1	3	16	25	35	Steel
1821332028	12, 16	6	13	14	5.5	16.1	4	20	32	42	Steel
1821332027	20, 25	8	20	17	6.6	22.1	5	25	40	54	Steel
3322210000	8, 10	5	11	11	4.5	12	3	16	25	35	Stainless steel
3322216000	12, 16	7	13	13	5.5	16.1	3	20	32	42	Stainless steel
3322220000	20, 25	9	20	16.5	6.6	22.1	4	25	40	54	Stainless steel

Part No.	Surface											
1821332029	galvanized											
1821332028	galvanized											
1821332027	galvanized											
3322210000	-											
3322216000	-											
3322220000	-											

ISO 6432, series OCT
Accessories

Flange mounting MF8
► **Cylinder mounting in accordance with ISO 6432**

00106405

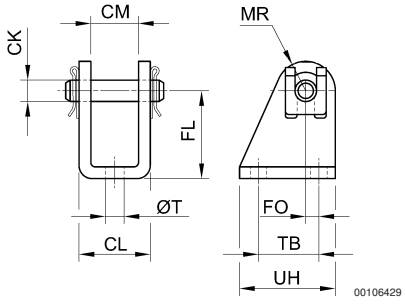


D132_007

Part No.	Piston Ø	Ø d	Ø FB	MF	TF js14	UF	UR	Material			
1821036012	8, 10	12.1	4.5	3	30	40	25	Steel			
1821036011	12, 16	16.1	5.5	4	40	53	30	Steel			
1821036010	20, 25	22.1	6.6	5	50	66	40	Steel			
3322010000	8, 10	12	4.5	3	30	40	22	Stainless steel			
3322016000	12, 16	16	5.5	4	40	53	30	Stainless steel			
3322020000	20, 25	22.1	6.6	5	50	68	40	Stainless steel			

Clevis mounting AB3

00105159



00106429

Scope of delivery: clevis mounting incl. pivot pins

Part No.	Piston Ø	CM	Ø CK	CL	FL	FO	MR	Ø T	TB	UH	Material
1827001447	8, 10	8,1	4	13,1	24	1,5	5	4,5	12,5	20	Steel
1827001446	12, 16	12,1	6	18,1	27	2,0	7	5,5	15	25	Steel
1827001445	20, 25	16,1	8	24,1	30	4,0	10	6,6	20	32	Steel
3323410000	8, 10	8	4	13	24	1,5	5	4.5	12	20	Stainless steel
3323416000	12, 16	12	6	18	27	2,0	7	5.5	17	27	Stainless steel
3323420000	20, 25	16	8	24	30	4,0	10	6.6	22	34	Stainless steel

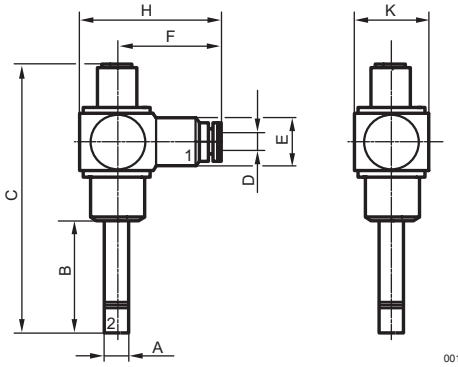
Part No.	Surface											
1827001447	galvanized											

ISO 6432, series OCT
Accessories

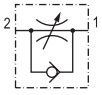
Part No.	Surface											
1827001446	galvanized											
1827001445	galvanized											
3323410000	-											
3323416000	-											
3323420000	-											

Check-choke valves, Series CC02
► Qn = 95 l/min ► direction of throttle: 2 → 1 ► exhaust air throttling ► push-in fitting - pin bushing

00127688



00128981

	Port 1	Port 2	Throttle bore	Qn 2 → 1	Weight	Part No.
			[mm]	[l/min]	[kg]	
	Ø 4	Ø 4	1.5	95	0.01	**R412007408**
	Ø 6	Ø 6	3		0.014	**R412007409**

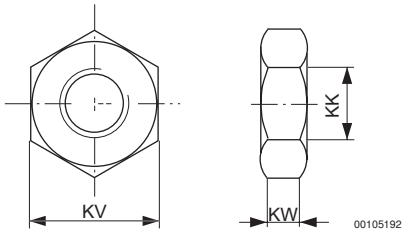
Nominal flow Qn at 6 bar and Δp = 1 bar

Part No.	A	D	B	C	E	F	H	K				
R412007408	4	4	17	42.5	10	19	24	10				
R412007409	6	6	19.6	45	12	20	25	10				

ISO 6432, series OCT
Accessories

Piston rod nut MR9

00105168

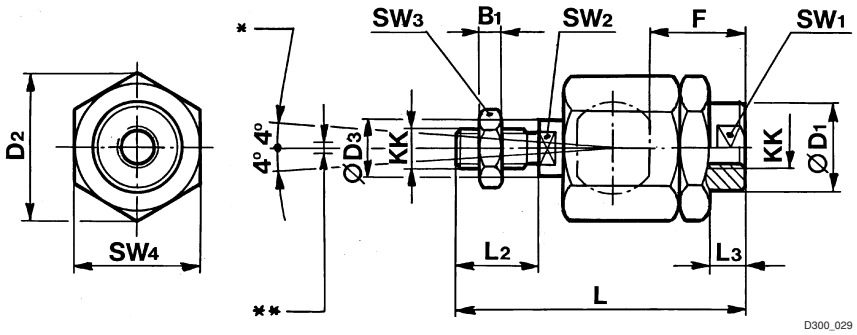


00105192

Part No.	KK	KV	KW	Material	Weight [kg]				
8103190644	M6	10	3.2	Stainless steel	0.003				
8103190164	M8	13	4	Stainless steel	0.006				
8103190464	M10x1,25	16	5	Stainless steel	0.008				
R913000042	M4	7	3.2	Stainless steel	0.003				

Flexible spherical coupling, PM5

00105169



* angle equalization
** Radial joint from 0,5 - 2 mm

Part No.	KK	B1	Ø D1	D2	Ø D3	F	L ±2	L2	L3 ±1	SW1	SW2	SW3
1826409008	M4	2.2	12	13.5	4	13	33	8	5.6	12	3.2	7
1826409000	M6	3.2	8.5	15	6	11.5	39	12	3.5	7	5	10
1826409001	M8	4	12.5	20	8	14.5	55	15	5	10	6	13
1826409002	M10x1,25	6	21.5	34	14	23	73	20	7.5	19	12	17

Part No.	SW4	Material	Surface	Weight [kg]					
1826409008	12	Steel	galvanized	0.02					
1826409000	13	Steel	galvanized	0.02					
1826409001	17	Steel	galvanized	0.05					
1826409002	30	Steel	galvanized	0.21					

ISO 6432, series OCT
Accessories

AP2 rod clevis
Steel, galvanized

00105171

Fig.1

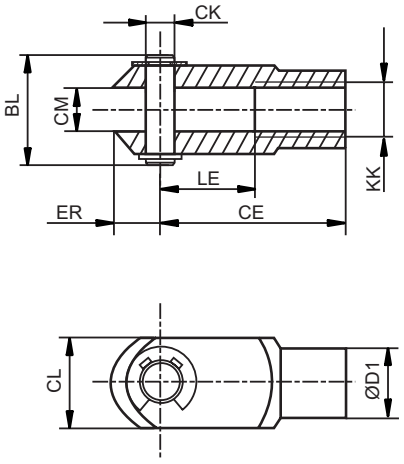
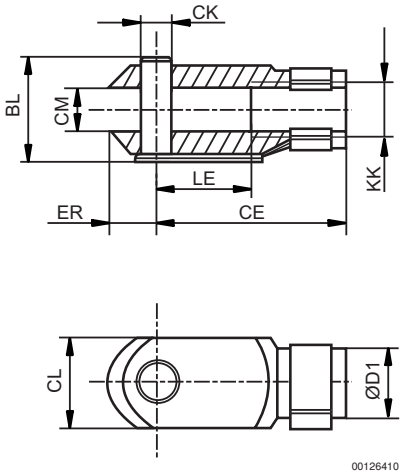


Fig. 2



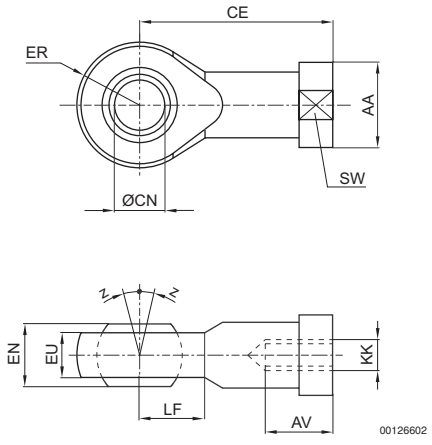
00126410

Part No.	KK	Fig.	BL	CE	ØCK e11	CL	CM	ØD1	ER	LE
1822122028	M4	2	11	16	4	8	4	8	5	8
1822122009	M6	2	16	24	6	12	6	10	7	12
1822122010	M8	2	21,5	32	8	16	8	14	10	16
1822122024	M10x1,25	2	26	40	10	20	10	18	12	20

Part No.	Material	Surface	Weight [kg]					
1822122028	Steel	galvanized	0.01					
1822122009	Steel	galvanized	0.02					
1822122010	Steel	galvanized	0.05					
1822122024	Steel	galvanized	0.1					

Ball eye rod end AP6

00105172



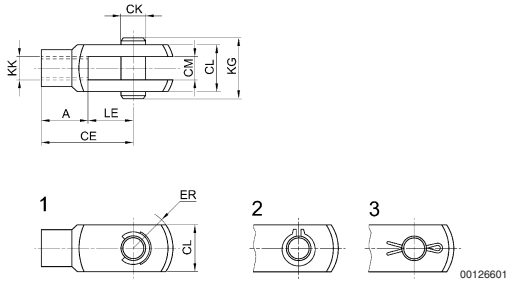
00126602

ISO 6432, series OCT
Accessories

Part No.	KK	AA	AV min.	CE	Ø CN H7	EN –0,1	ER	EU max.	LF	SW	Z [°] max.
1822124000	M4	12	8	27	5	8	9	7.5	9	9	4
1822124001	M6	13	9	30	6	9	10	7.5	10	11	4
1822124002	M8	16	12	36	8	12	12	9.5	12	14	4
1822124003	M10x1,25	19	15	43	10	14	14	11.5	14	17	4
8958209002	M4	11	8	27	5	8	9	6	9	9	6.5
8958209012	M6	13	9	30	6	9	10	6.75	10	11	6.5
8958209022	M8	16	12	36	8	12	12	9	12	14	6.5
8958209032	M10x1,25	19	15	43	10	14	14	10.5	14	17	6.5

Part No.	Material	Surface	Weight [kg]
1822124000	Steel	galvanized	0.02
1822124001	Steel	galvanized	0.03
1822124002	Steel	galvanized	0.05
1822124003	Steel	galvanized	0.07
8958209002	Stainless steel	-	0.022
8958209012	Stainless steel	-	0.035
8958209022	Stainless steel	-	0.057
8958209032	Stainless steel	-	0.09

AP2 rod clevis
Stainless steel



Part No.	KK	Fig.	A	CE	CK e8	CL	CM B12	ER	KG	LE
3330510000	M4	1	8	16	5	10	5	6	15	8
3330516000	M6	3	12	24	6	12	6	7	17	12
3330520000	M8	3	16	32	8	16	8	10	22	16
3590502000	M10x1,25	1	20	40	10	20	10	12	26	20

Part No.	Material	Weight [kg]
3330510000	Stainless steel	0.01
3330516000	Stainless steel	0.02
3330520000	Stainless steel	0.05
3590502000	Stainless steel	0.1

ISO 6432, series OCT
Accessories

Guide unit, GU1
► Ø 12 - 25 mm ► Plain bearing ► for standard cylinder ISO 6432

00127781

Ambient temperature min./max.	-20 °C / 80 °C
Materials:	
Bearing housings	Aluminum, black anodized
Bearing type	Sintered bronze
Carrying plate	Aluminum, black anodized
Flexible coupling in carrying plate	Stainless steel
Guide rods	Stainless steel, smooth rolled

Technical Remarks
■ Guide units for cylinder Ø 12 also fit on cylinder Ø 16

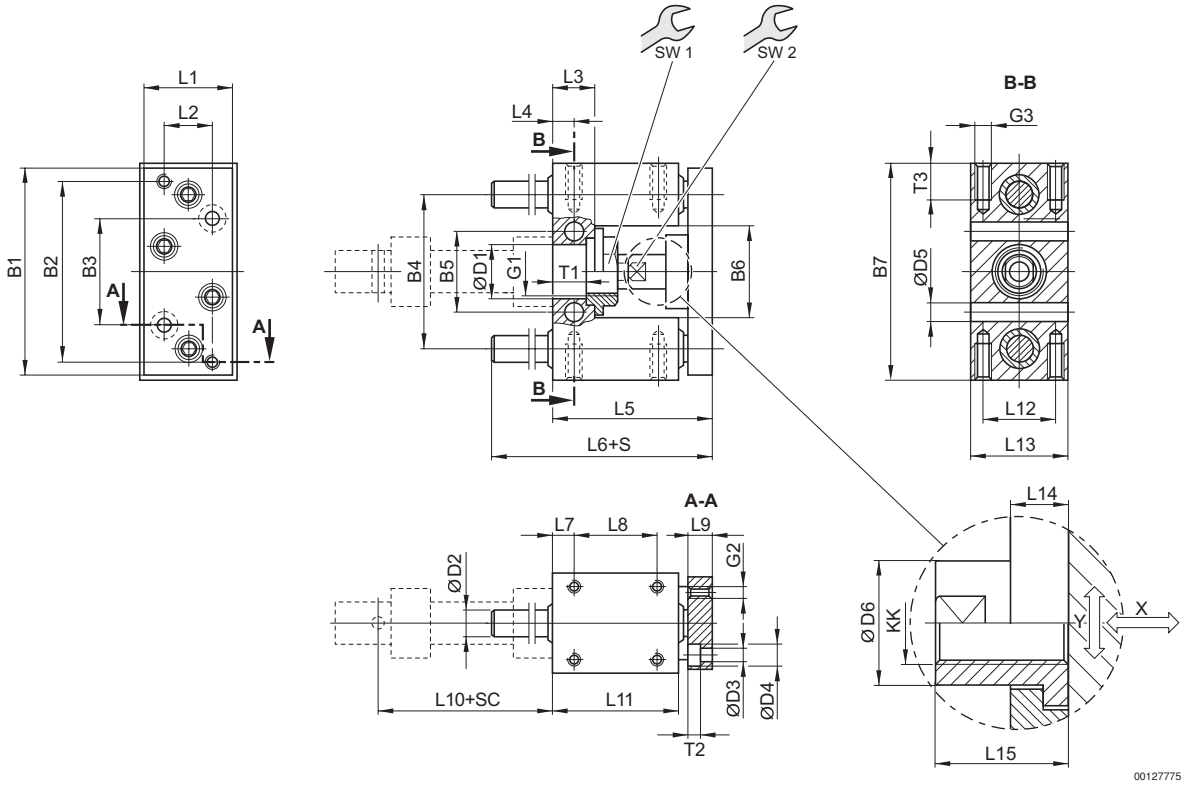
Suitable piston Ø		**[mm]**	**12**	**20**	**25**		
Weight	0 mm stroke	[kg]	0.247	0.66	0.66		
	10 mm stroke	[kg]	0.0078	0.0122	0.0122		

	Suitable piston Ø [mm] **Min. play (radial) [mm]**	**12** **1**	**20** **2**	**25** **2**		
	Stroke 50	**0821401095**	**0821401070**	**0821401080**		
	100	**0821401096**	**0821401071**	**0821401081**		
	160	-	**0821401072**	**0821401082**		
	200	0821401097	0821401073	**0821401083**		
	250	-	0821401074	**0821401084**		
	400	-	-	0821401085		
	600	-	-	0821401086		
	800	-	0821401077	0821401087		

ISO 6432, series OCT

Accessories

Ø 12 - 16 mm



S = stroke
SC = cylinder stroke
X = max. play (axial)
Y = min. play (radial)

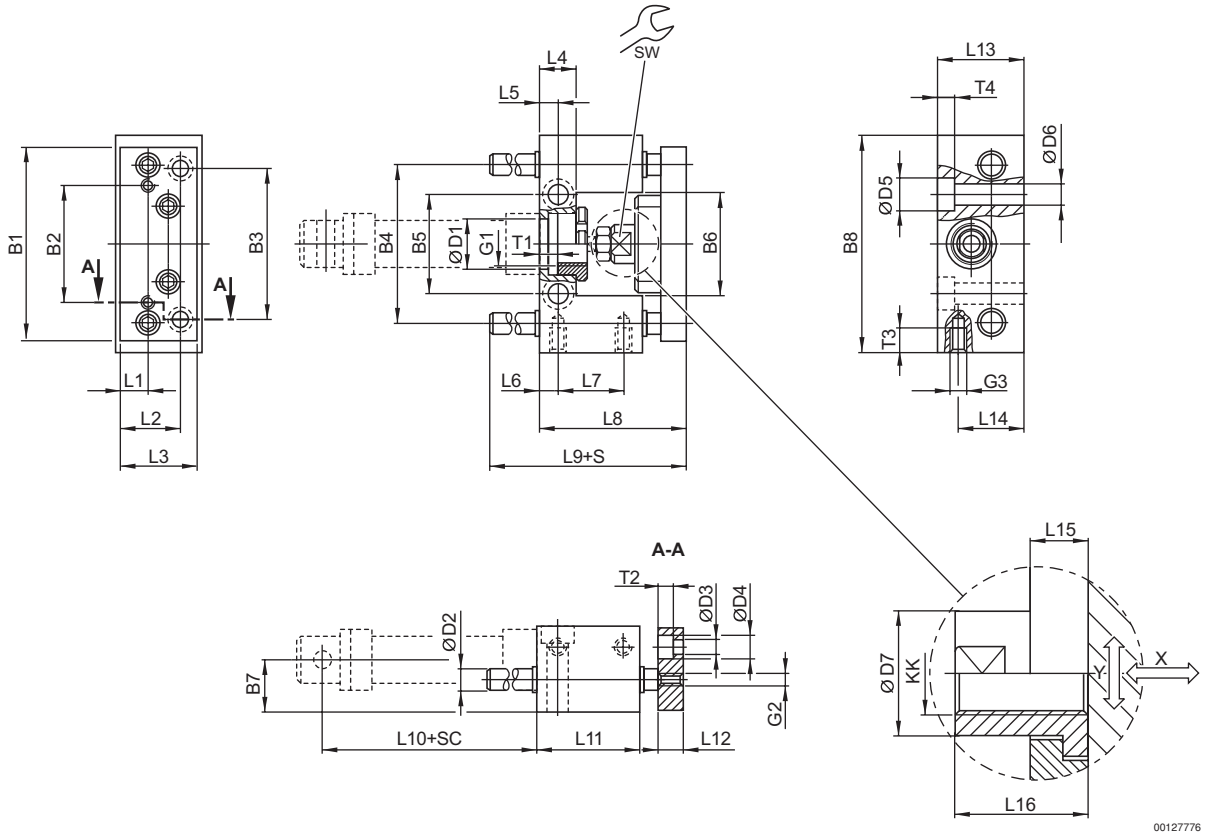
Piston Ø	B1	B2	B3	B4	B5	B6	B7	D1	D2	D3	D4	D5	D6
12	63	54	32	46	24	27	65	16 H7	8	4.5	8	5.5	10

Piston Ø	G1	G2	G3	KK	L1	L2	L3	L4	L5	L6	L7	L8	L9
12	M16x1,5	M4	M4	M6	27	15	13	6.5	53	73	6.5	25	10

Piston Ø	L10	L11	L12	L13	L14	L15	SW1	SW2	T1	T2	T3		
12	52.6	38	22	30	7	18	19	8	10.6	4.6	8		

ISO 6432, series OCT
Accessories

Ø 20 - 25 mm



S = stroke
SC = cylinder stroke
X = max. play (axial)
Y = min. play (radial)

Piston Ø	B1	B2	B3	B4	B5	B6	B7	B8	D1	D2	D3	D4	D5
20	90	55	70	74	46.5	48	24	100	22 H7	10	6.6	11	15
25	90	55	70	74	46.5	48	24	100	22 H7	10	6.6	11	15

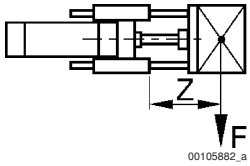
Piston Ø	D6	D7	G1	G2	G3	KK	L1	L2	L3	L4	L5	L6
20	9	18	M22x1,5	M6	M8	M8	14	29	38	17	8.5	8
25	9	18	M22x1,5	M6	M8	M10x1,25	14	29	38	17	8.5	8

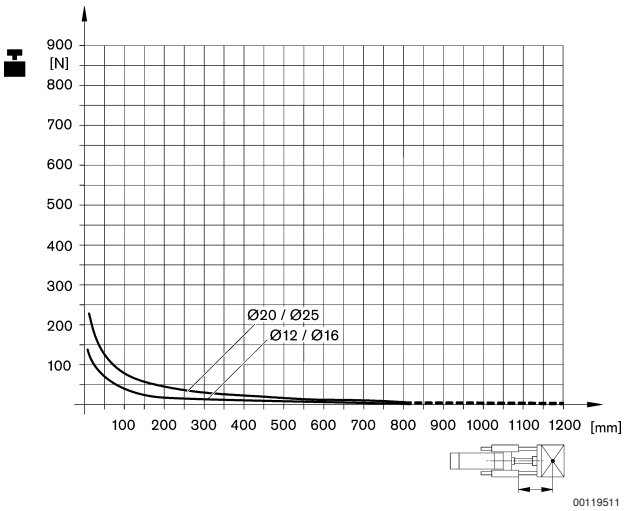
Piston Ø	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	T1	T2	T3
20	32	65	77	71	48	12	40	30	14	22	8	7	14
25	32	71	77	76	48	12	40	30	14	22	8	7	14

Piston Ø	T4	SW											
20	9	15											
25	9	15											

ISO 6432, series OCT
Accessories

Useful load





F = Useful load, Z = Projection

Guide unit, GH1
► Ø 12 - 25 mm ► Plain bearing ► for standard cylinder ISO 6432

Ambient temperature min./max.	-20 °C / 80 °C
Materials:	
Bearing housings	Aluminum, black anodized
Bearing type	Sintered bronze
Carrying plate	Aluminum, black anodized
Flexible coupling in carrying plate	Stainless steel
Guide rods	Stainless steel, smooth rolled

Technical Remarks

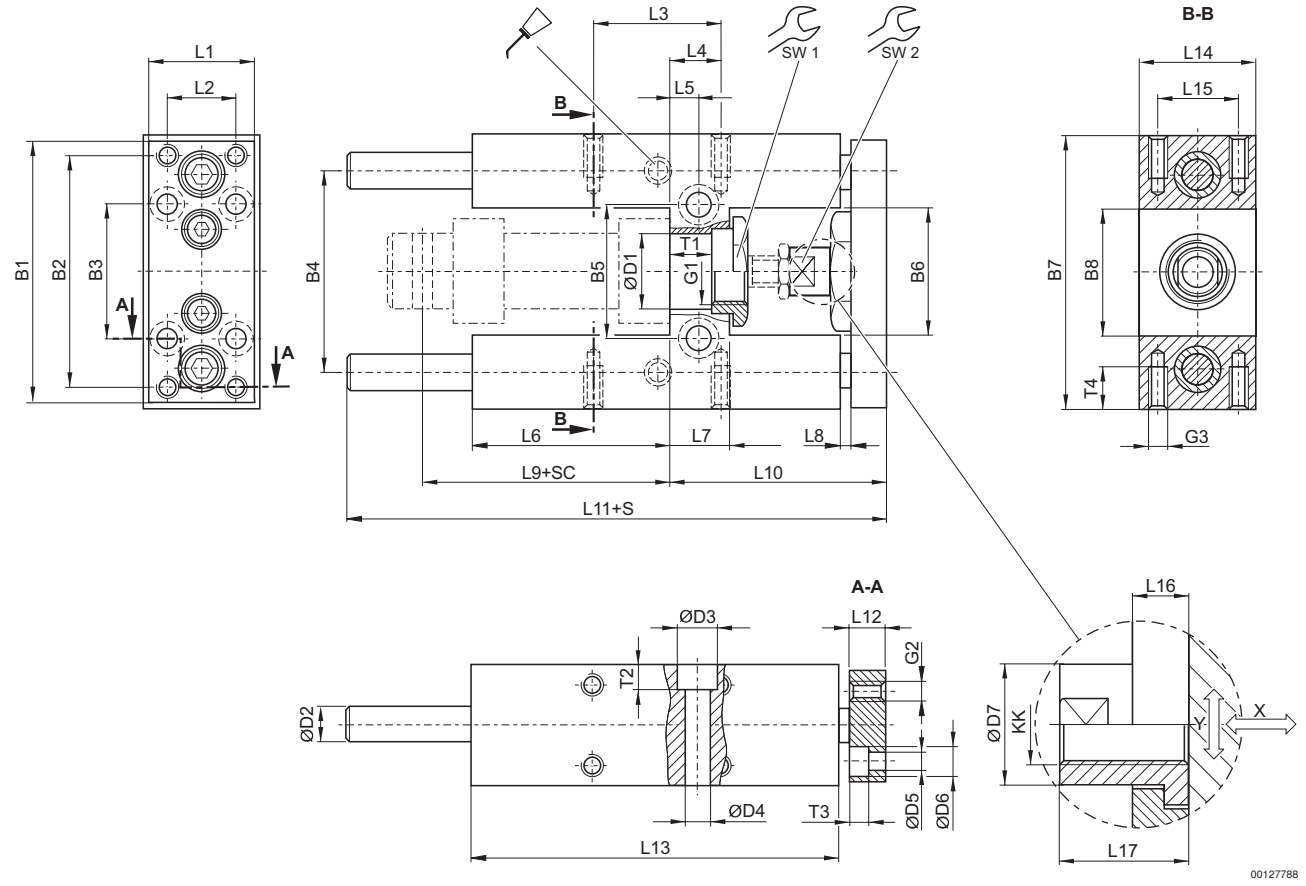
- Guide units for cylinder Ø 12 also fit on cylinder Ø 16

Suitable piston Ø		[mm]	12	20	25		
Weight	0 mm stroke	[kg]	0.395	0.73	0.73		
	10 mm stroke	[kg]	0.0078	0.0122	0.0122		

ISO 6432, series OCT
Accessories

	Suitable piston Ø [mm] Min. play (radial) [mm]	12 1	20 1.5	25 1.5		
	Stroke 50	**0821401295**	**0821401200**	**0821401210**		
	100	**0821401296**	**0821401201**	**0821401211**		
	160	-	**0821401202**	**0821401212**		
	200	**0821401297**	**0821401203**	**0821401213**		
	250	-	**0821401204**	**0821401214**		
	400	-	**0821401205**	**0821401215**		
	600	-	0821401206	0821401216		
	800	-	0821401207	0821401217		

Ø 12 - 25 mm



S = stroke
SC = cylinder stroke
X = max. play (axial)
Y = min. play (radial)

Piston Ø	B1	B2	B3	B4	B5	B6	B7	B8	D1	D2	D3	D4	D5
12	63	54	32	46	24	27	65	27	16 H7	8	–	5.5	4.5
20	76	68	40	58	38	37	79	37	22 H7	10	11	6.6	5.5
25	76	68	40	58	38	37	79	37	22 H7	10	11	6.6	5.5

Piston Ø	D6	D7	G1	G2	G3	KK	L1	L2	L3	L4	L5	L6
12	8	10	M16x1,5	M4	M4	M6	27	15	32.5	11	6.5	37

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information

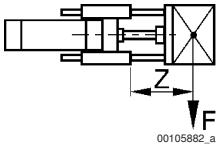
ISO 6432, series OCT
Accessories

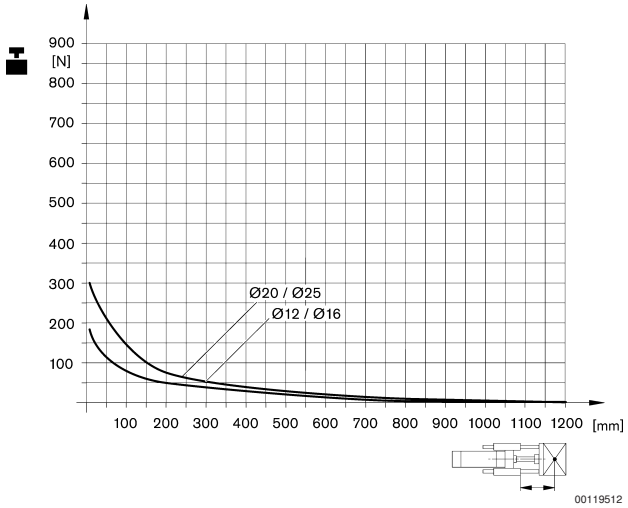
Piston Ø	D6	D7	G1	G2	G3	KK	L1	L2	L3	L4	L5	L6
20	10.5	14.5	M22x1,5	M5	M6	M8	32	20	32.5	15	8.5	58
25	10.5	14.5	M22x1,5	M5	M6	M10x1,25	32	20	32.5	15	8.5	58

Piston Ø	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	SW1	SW2
12	13	3	52.6	51	133	10	75	30	22	7	18	19	8
20	17	3	71	65	160.5	12	108	34	23	6	22	27	13
25	17	3	76	65	160.5	12	108	34	23	6	17	27	13

Piston Ø	T1	T2	T3	T4									
12	10.6	–	4.6	8									
20	11	7	5.7	14									
25	11	7	5.7	14									

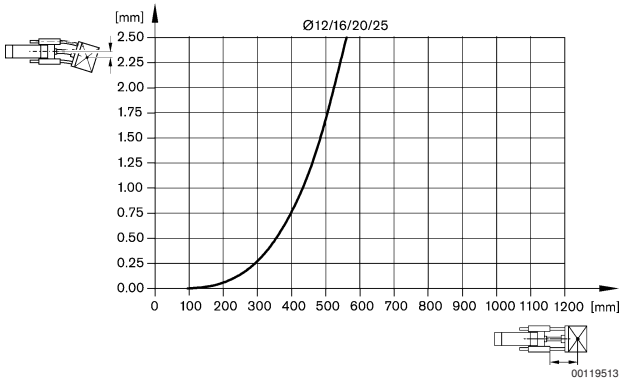
Useful load





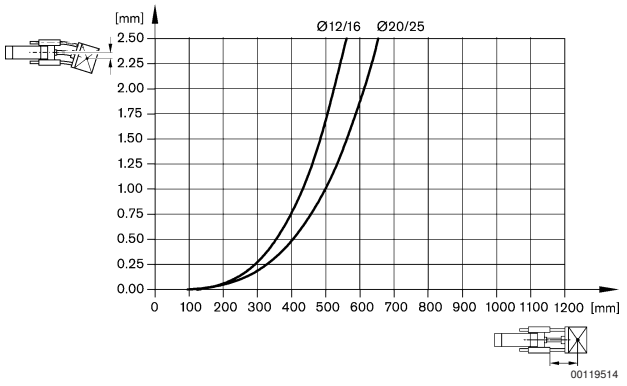
F = Useful load, Z = Projection

Bending due to own load



ISO 6432, series OCT
Accessories

Bending due to 10 N load

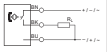
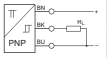
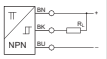
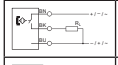
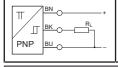


ISO 6432, series OCT
Accessories

Sensor, Series ST6
► 6 mm groove ► with cable ► without wire end ferrule, tin-plated

00112027_2

Ambient temperature min./max.	-25 °C / +70 °C
Protection class according to EN 60529:2000	IP 65IP 67
Switching point precision [mm]	±0,1
Switching capacity	3 W / 3 VA
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Polyamide
Cable	Polyurethane

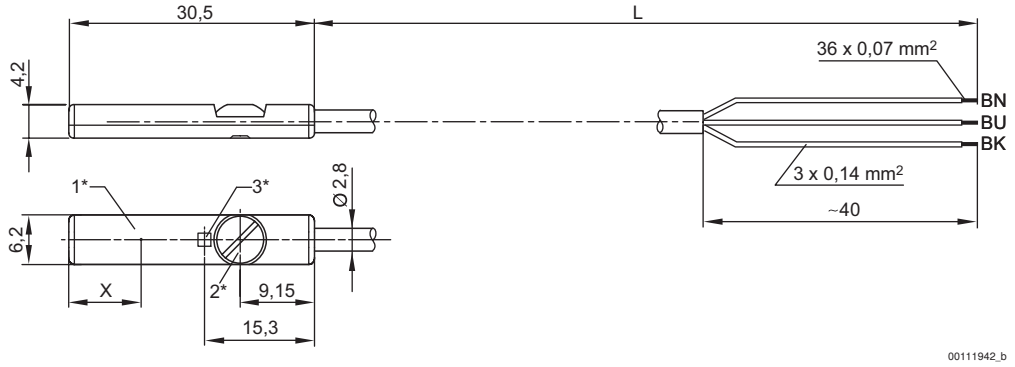
	Type of contact	Cable length L	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	Reed	3 5	10 / 30	10 / 30	0,13	0,13	**0830100629** **0830100630**
	electronic PNP	3 5	10 / 30	-	0.1	0.1	**0830100631** **0830100632**
	electronic NPN	3 5	10 / 30	-	0.1	-	**0830100633** **0830100634**
	Reed	10	10 / 30	10 / 30	0,13	0,13	R412004575
	electronic PNP	10	10 / 30	-	0.1	0.1	R412004576

Part No.	Voltage drop U at Imax	Protective resistor for reed	Max. switching frequency	Operating current, not switched	Operating current, switched	LED	Note
	[V]	[Ω]	[kHz]	[mA]	[mA]		
0830100629 **0830100630**	I*Rs	15	< 0,3	-	< 10	Yellow	1)
0830100631 **0830100632**	≤ 2,5	-	< 1,0	< 20	< 30	Yellow	2)
0830100633 **0830100634**	≤ 2,5	-	< 1,0	< 20	< 30	Yellow	2)
R412004575	I*Rs	15	< 0,3	-	< 10	Yellow	1)
R412004576	≤ 2,5	-	< 1,0	< 20	< 30	Yellow	2)

1) short circuit protected
2) short circuit resistant; short circuit protected
interfaces: without wire end ferrule, tin-plated
UL (Underwriters Laboratories)

ISO 6432, series OCT
Accessories

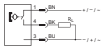
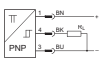
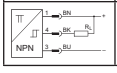
Dimensions



1* = switching point 2* = clamping screw 3* = LED
L = cable length
BN = brown, BK = black, BU = blue
X = electronic: 6 mm, Reed: 10 mm

Sensor, Series ST6
► 6 mm groove ► with cable ► Plug, M8, 3-pin, with knurled screw

Certificates	UL (Underwriters Laboratories)
Ambient temperature min./max.	-25°C / +70°C
Protection class according to EN 60529:2000	IP 65IP 67
Switching point precision [mm]	±0,1
Switching capacity	3 W / 3 VA
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Polyamide

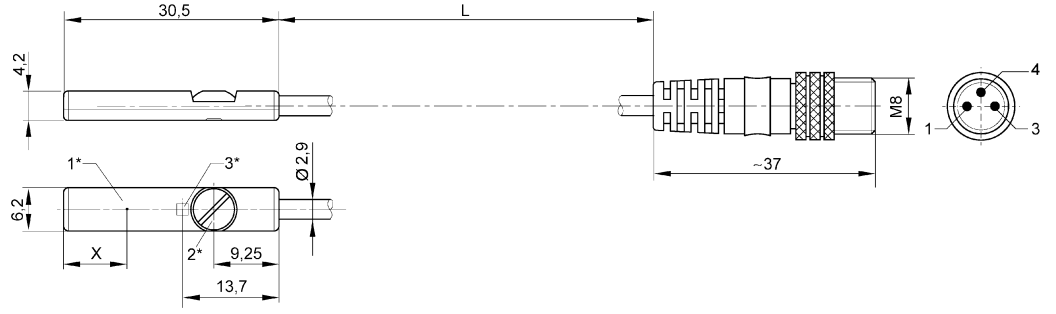
	Type of contact	Cable length L	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	Reed	0.3 0.5	10 / 30	10 / 30	0,13	0,13	**0830100434** **0830100436**
	electronic PNP	0.3 0.5 0.3	10 / 30	-	0.1	0.1	**0830100435** **0830100437** **R412004762**
	electronic NPN	0.3	10 / 30	-	0.1	-	0830100431

ISO 6432, series OCT
Accessories

Part No.	Voltage drop U at Imax	Protective resistor for reed	Max. switching frequency	Operating current, not switched	Operating current, switched	Material Cable	Note
	[V]	[Ω]	[kHz]	[mA]	[mA]		
0830100434 **0830100436**	I*Rs	15	< 0,3	-	< 10	Polyurethane	1)
0830100435 **0830100437** **R412004762**	≤ 2,5	-	< 1,0	< 20	< 30	Polyurethane Polyurethane Polyvinyl chloride	2)
0830100431	≤ 2,5	-	< 1,0	< 20	< 30	Polyurethane	2)

1) short circuit protected
2) short circuit resistant; short circuit protected
interfaces: Plug; M8; 3-pin; with knurled screw

Dimensions



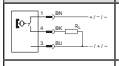
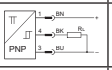
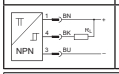
1* = switching point 2* = clamping screw 3* = LED
L = cable length
X = electronic: 6 mm, Reed: 10 mm
Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

Sensor, Series ST6
► 6 mm groove ► with cable ► Plug, M8, 3-pin

Certificates	UL (Underwriters Laboratories)
Ambient temperature min./max.	-25°C / +70°C
Protection class according to EN 60529:2000	IP 65IP 67
Switching point precision [mm]	±0,1
Switching capacity	3 W / 3 VA
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Polyamide
Cable	Polyurethane

ISO 6432, series OCT

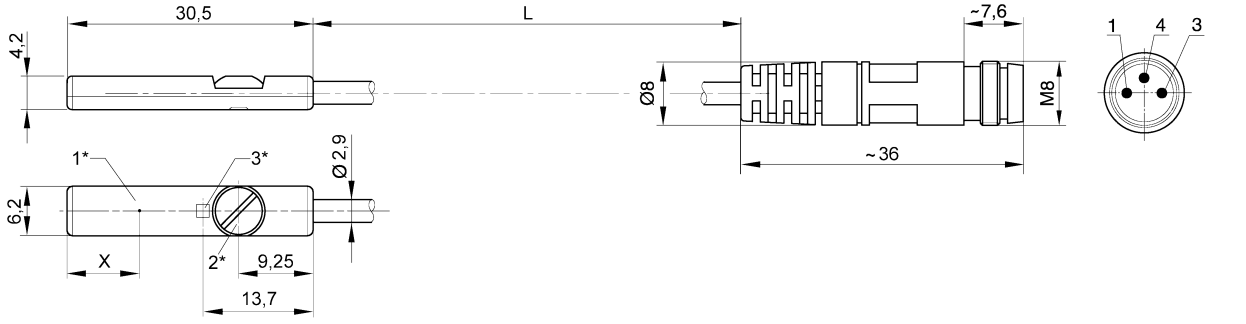
Accessories

	Type of contact	Cable length L	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	Reed	0.3	10 / 30	10 / 30	0,13	0,13	0830100488
	electronic PNP	0.3	10 / 30	-	0.1	0.1	0830100489
	electronic NPN	0.3	10 / 30	-	0.1	-	0830100430

Part No.	Voltage drop U at Imax	Protective resistor for reed	Max. switching frequency	Operating current, not switched	Operating current, switched	Note
	[V]	[Ω]	[kHz]	[mA]	[mA]	
0830100488	I*Rs	15	< 0,3	-	< 10	1)
0830100489	≤ 2,5	-	< 1,0	< 20	< 30	2)
0830100430	≤ 2,5	-	< 1,0	< 20	< 30	2)

1) short circuit protected
2) short circuit resistant; short circuit protected
interfaces: Plug; M8; 3-pin

Dimensions



00111942_a

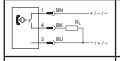
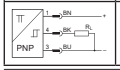
1* = switching point 2* = clamping screw 3* = LED
L = cable length
X = electronic: 6 mm, Reed: 10 mm
Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

ISO 6432, series OCT
Accessories

Sensor, Series ST6
► 6 mm groove ► with cable ► Plug, M12, 3-pin, with knurled screw


00112027_4

Certificates	UL (Underwriters Laboratories)
Ambient temperature min./max.	-25 °C / +70 °C
Protection class according to EN 60529:2000	IP 65IP 67
Switching point precision [mm]	±0,1
Switching capacity	3 W / 3 VA
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Polyamide
Cable	Polyurethane

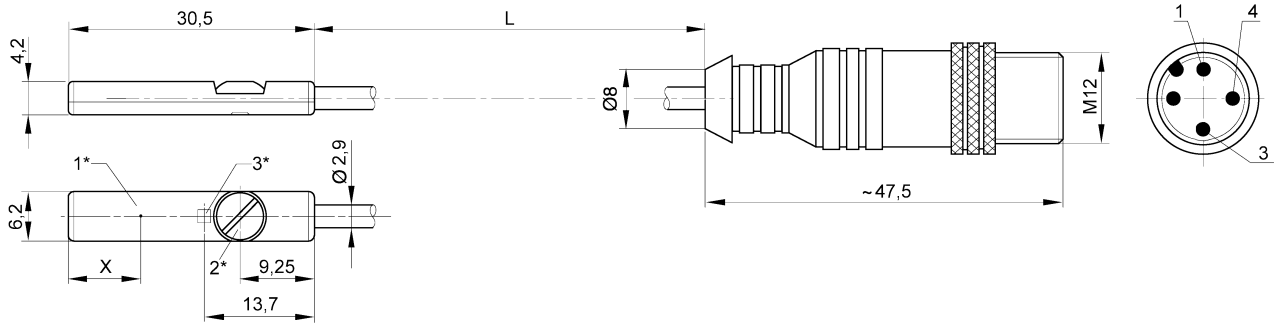
	Type of contact	Cable length L	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	Reed	0.3	10 / 30	10 / 30	0,13	0,13	0830100432
	electronic PNP	0.3	10 / 30	-	0.1	-	0830100433

Part No.	Voltage drop U at Imax	Protective resistor for reed	Max. switching frequency	Operating current, not switched	Operating current, switched	Note
	[V]	[Ω]	[kHz]	[mA]	[mA]	
0830100432	I*Rs	15	< 0,3	-	< 10	1)
0830100433	≤ 2,5	-	< 1,0	< 20	< 30	2)

1) short circuit protected
2) short circuit resistant; short circuit protected
interfaces: Plug; M12; 3-pin; with knurled screw

ISO 6432, series OCT
Accessories

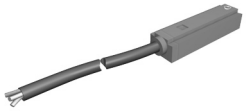
Dimensions



00111942_c

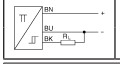
1* = switching point 2* = clamping screw 3* = LED
L = cable length
X = PNP: 6 mm, reed: 10 mm
Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

Sensor, Series ST8
► 8 mm groove ► with cable ► without wire end ferrule, tin-plated



P322_194_2

Ambient temperature min./max.	-25°C / +75°C
Protection class according to EN 60529:2000	IP 65IP 67
Switching point precision [mm]	±0,1
Vibration resistance	10 - 55 Hz, 1,5 mm
Materials:	
Housing	Polyamide
Cable	Polyvinyl chloride

	Type of contact	Cable length L	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	Reed	2.5	10 / 30	-- / 240	-	-	**2750132310**
		10		12 / 240	0.1	0,13	**2750152310**
	electronic PNP	2.5	10 / 30	-	0,15	-	**2750131110**
		10					**2750151110**

Part No.	Voltage drop U at Imax	Shock resistance max.	Note
	[V]		
2750132310	≤ 3,0	-	2)
2750152310	I*Rs	30 g / 11 ms	1); 2)

1) switching capacity: 3 W / 3 VA
2) short circuit protected
3) short circuit resistant; short circuit protected
interfaces: without wire end ferrule, tin-plated

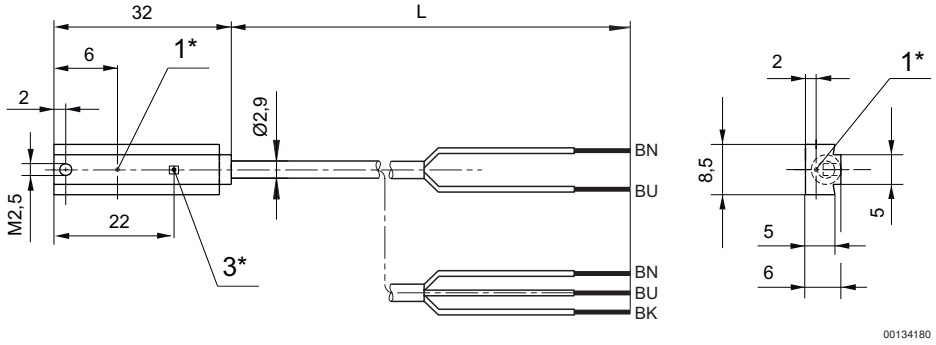
Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information

ISO 6432, series OCT
Accessories

Part No.	Voltage drop U at Imax	Shock resistance max.	Note
	[V]		
2750131110 **2750151110**	≤ 2,0	30 g	3)

1) switching capacity: 3 W / 3 VA
2) short circuit protected
3) short circuit resistant; short circuit protected
interfaces: without wire end ferrule, tin-plated

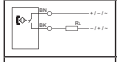
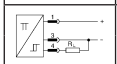
Dimensions



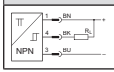
1* = switching point
3* = LED
L = cable length
BN = brown, BK = black, BU = blue

Sensor, Series ST8
► 8 mm groove ► with cable ► Plug, M8, 3-pin

Ambient temperature min./max.	-25 °C / +75 °C
Protection class according to EN 60529:2000	IP 65IP 67
Switching point precision [mm]	±0,1
Vibration resistance	10 - 55 Hz, 1,5 mm
Shock resistance	30 g
Materials:	
Housing	Polyamide
Cable	Polyurethane

	Type of contact	Cable length L	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	Reed	0.3	10 / 30	3 / 30	0.1	0,15	2750111320
	electronic PNP	0.3	10 / 30	-	0,15	-	**2750111120** **2750123120**

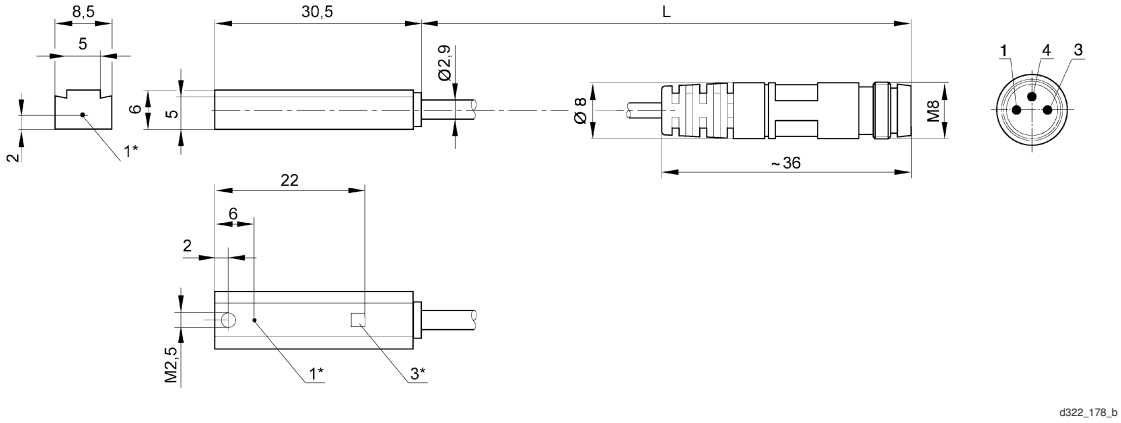
ISO 6432, series OCT
Accessories

	Type of contact	Cable length L	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V]	[V]	[A]	[A]	
	electronic NPN	0.3	10 / 30	-	0,15	-	2750111220

Part No.	Voltage drop U at Imax	Note
	[V]	
2750111320	I*Rs	2); 3)
2750111120	≤ 2,0	4)
2750123120		1); 4)
2750111220	≤ 2,0	4)

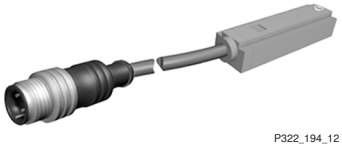
1) in accordance with EN 50082-2
2) switching capacity: 3 W / 3 VA
3) short circuit protected
4) short circuit resistant; short circuit protected
interfaces: Plug; M8; 3-pin

Dimensions



1* = switching point
3* = LED
L = cable length
Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

Sensor, Series ST8
► 8 mm groove ► with cable ► Plug, M12, 3-pin, with knurled screw


P322_194_12

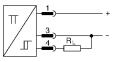
Ambient temperature min./max.	-25°C / +75°C
Protection class according to EN 60529:2000	IP 65IP 67
Switching point precision [mm]	±0,1
Vibration resistance	10 - 55 Hz, 1,5 mm
Shock resistance	30 g
Materials:	
Housing	Polyamide
Cable	Polyurethane

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information

Piston rod cylinders → Standard cylinders

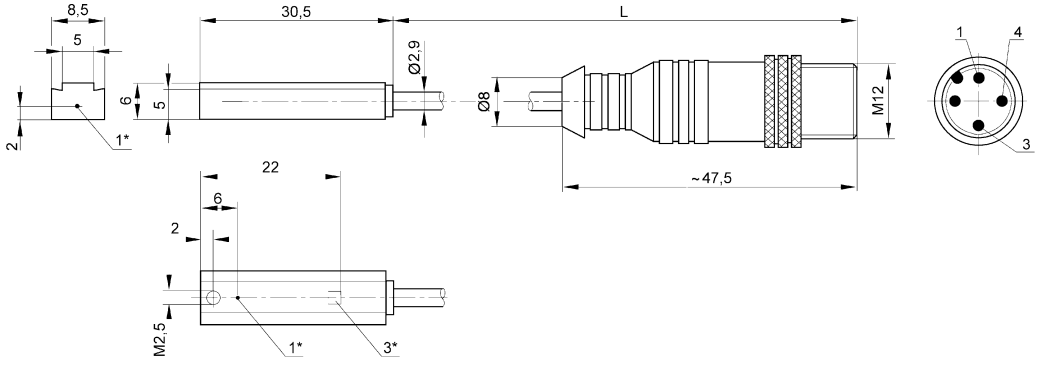
ISO 6432, series OCT

Accessories

	Type of contact	Cable length L	DC operating voltage min./max.	DC switching current, max.	Voltage drop U at Imax	Part No.
		[m]	[V]	[A]	[V]	
	electronic PNP	0.3	10 / 30	0,15	≤ 2,0	2750121120

interfaces: Plug; M12; 3-pin; with knurled screw
short circuit resistant; short circuit protected

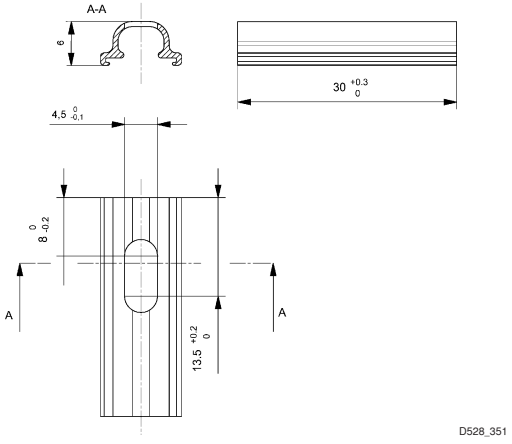
Dimensions



1* = switching point
3* = LED
L = cable length
Pin assignment: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

Sensor mounting

► clamping piece ► for Sensor Series ST6 ► to mount on cylinder series OCT, series PRE



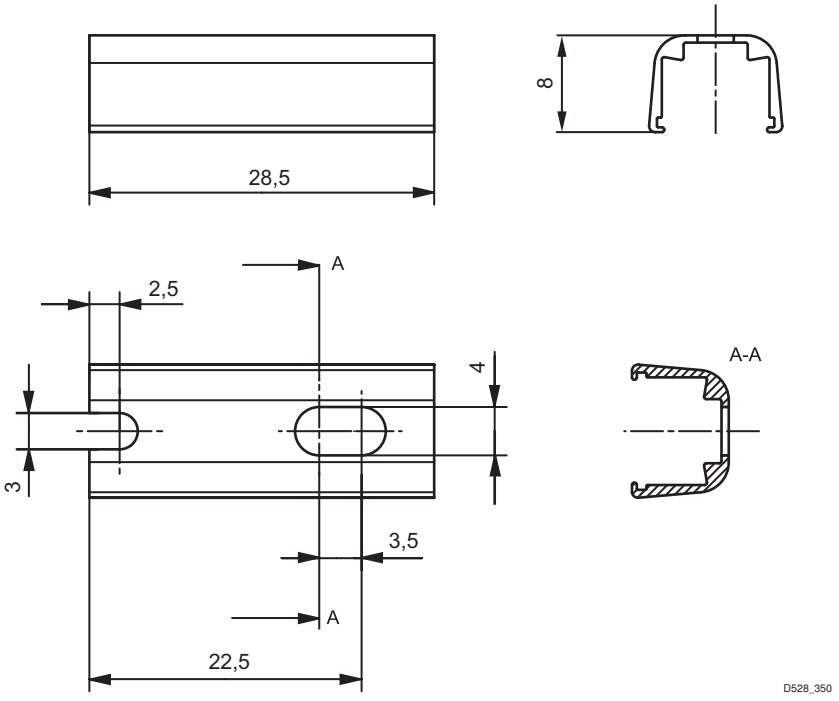
Part No.	Material	Weight [kg]	Delivery quantity [Piece]						
5283003512	Aluminum	0.005	1						

ISO 6432, series OCT
Accessories

Part No.	Material	Weight [kg]	Delivery quantity [Piece]						
5283003532	Aluminum	0.005	10						

Sensor mounting
► clamping piece ► for Sensor Series ST8 ► to mount on cylinder series OCT, series PRE

5283003504



Part No.	Material	Weight [kg]	Delivery quantity [Piece]						
5283003502	Aluminum	0.005	1						

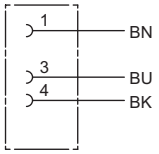
Connecting cable, Series CN1
► Socket, M8, 3-pin ► without wire end ferrule, tin-plated, 3-pin

00107009

Ambient temperature min./max.	-40°C / +85°C
Protection class according to EN 60529	IP 65
Materials:	
Cable sheath	Polyurethane

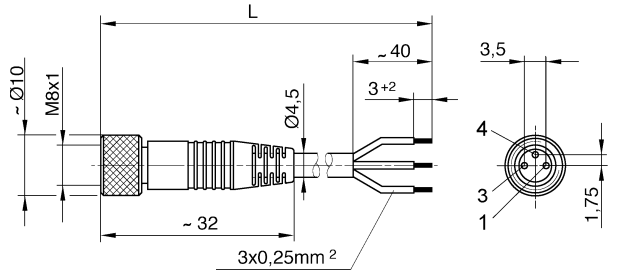
ISO 6432, series OCT
Accessories

Technical Remarks
■ The specified protection class is valid only in assembled and tested state.

	Electrical interface		Number of plug options	Max. current	Number of wires	Cable length	Part No.
	[Port 1]	[Port 2]	[for port 1]	[A]		[m]	
	Socket, M8, 3-pin	without wire end ferrule, tin-plated, 3-pin	1 position	4	3	3	**1834484166**
						5	**1834484168**
						10	**1834484247**
						3	**1834484167**
						5	**1834484169**
						10	**1834484248**
						15	**1834484249**

Part No.	Cable exit	Weight	Note
		[kg]	
1834484166	straight 180°	0.091	Fig. 1
1834484168	straight 180°	0.145	Fig. 1
1834484247	straight 180°	0.33	Fig. 1
1834484167	angled 90°	0.092	Fig. 2
1834484169	angled 90°	0.141	Fig. 2
1834484248	angled 90°	0.276	Fig. 2
1834484249	angled 90°	0.431	Fig. 2

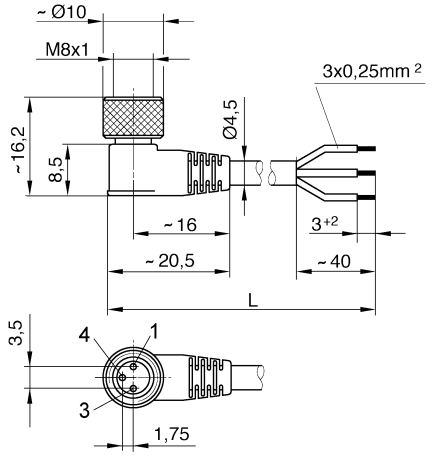
Fig. 1



(1) BN=brown (3) BU=blue (4) BK=black
L = length

ISO 6432, series OCT
Accessories

Fig. 2



(1) BN=brown (3) BU=blue (4) BK=black
L = length

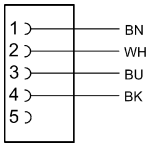
Connecting cable, Series CN1

Ambient temperature min./max.	-40 °C / +85 °C
Protection class according to EN 60529	IP 65

Technical Remarks
■ The specified protection class is valid only in assembled and tested state.

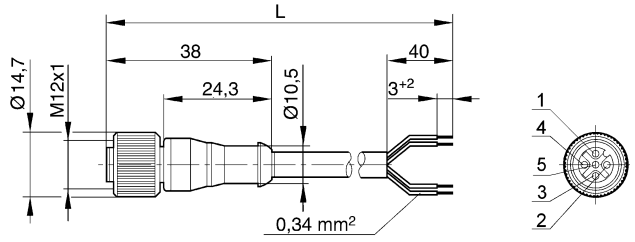
ISO 6432, series OCT

Accessories

	Electrical interface		Number of plug options	Operating voltage		Max. current	Housing color	Part No.
	[Port 1]	[Port 2]	[for port 1]	[V DC]	[V AC]	[A]		
	Socket, M12, 5-pin	without wire end ferrule, tin-plated, 5-pin	1 position	300	250		Black	**1834484256**
	Socket, M12, 5-pin	without wire end ferrule, tin-plated, 5-pin	1 position	300	250		Black	**1834484257**
	Socket, M12, 5-pin	without wire end ferrule, tin-plated, 5-pin	1 position	300	250		Black	**1834484258**
	Socket, M12, 4-pin	-	-	-	-	4	-	**1834484177**
	Socket, M12, 5-pin	without wire end ferrule, tin-plated, 5-pin	1 position	300	250		Black	**1834484259**
	Socket, M12, 5-pin	without wire end ferrule, tin-plated, 5-pin	1 position	300	250		Black	**1834484260**
	Socket, M12, 5-pin	without wire end ferrule, tin-plated, 5-pin	1 position	300	250		Black	**1834484261**
	Socket, M12, 4-pin	-	-	-	-		-	**1834484178**

Part No.	Number of wires	Cable length	Cable exit	Cable color	Cable sheath	Weight	Note
		[m]				[kg]	
1834484256	4	3	straight 180°	Black	Polyurethane	0.131	Fig. 1
1834484257	4	5	straight 180°	Black	Polyurethane	0.201	Fig. 1
1834484258	4	10	straight 180°	Black	Polyurethane	0.398	Fig. 1
1834484177	-	-	straight 180°	-	-	0.013	Fig. 1
1834484259	4	3	angled 90°	Black	Polyurethane	0.13	Fig. 2
1834484260	4	5	angled 90°	Black	Polyurethane	0.202	Fig. 2
1834484261	4	10	angled 90°	Black	Polyurethane	0.387	Fig. 2
1834484178	-	-	angled 90°	-	-	0.014	Fig. 2

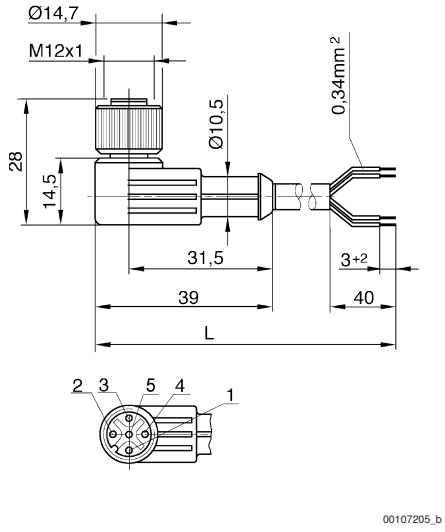
Fig. 1



(1) BN=brown (2) WH=white (3) BU=blue (4) BK=black (5) not assigned
L = length

ISO 6432, series OCT
Accessories

Fig. 2

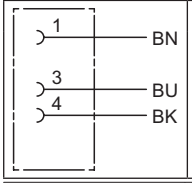


(1) BN=brown (2) WH=white (3) BU=blue (4) BK=black (5) not assigned
L = length

M8x1 socket (female)
► **Socket, M8x1, 3-pin**

Ambient temperature min./max.	-40°C / +85°C
Protection class according to EN 60529:	IP 65
Materials:	
Housing	Polyamide

Technical Remarks
■ The specified protection class is valid only in assembled and tested state.

	Operating voltage		Max. current	Contact assignment	Cable exit	suitable cable-Ø min./max	Part No.
	DC	AC					
	[V]	[V]	[A]			[mm]	
	75	60	4	3	straight 180°	-- / 4.5	**1834484173**
					angled 90°		**1834484174**

Part No.	number of plug options 1	Housing color	Weight	Note
			[kg]	
1834484173	1 position	Black	0.008	Fig. 1
1834484174				Fig. 2

ISO 6432, series OCT
Accessories

Fig. 1

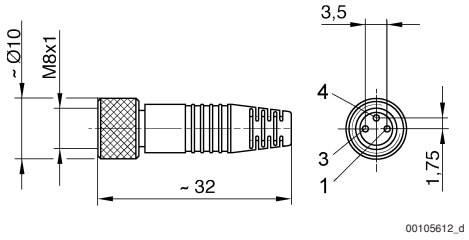
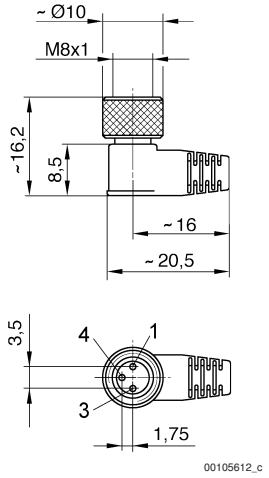


Fig. 2



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