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ISO 6432 CETOP Cylinder Mountings

Mounting Flange Ø 8mm - 25mm

Code	Ø	A	B	C1	R_1	R_2	S1
23.305	8, 10	12	4.5	30	11	5	3
26.305	12, 16	16	5.5	40	15	6	4
28.305	20, 25	22	6.6	50	20	8	5

Mounting Brackets Ø 8mm - 25mm

Code	Ø	A	B	C_2	D	G	H_2	J	R_3	S_1
23.312	8, 10	12	4.5	25	35	11	16	16	10	3
26.302	12, 16	16	5.5	32	42	14	20	20	12.5	4
28.302	20, 25	22	6.6	40	54	17	25	25	18	5

Piston Rod Clevis Ø 8mm - 25mm

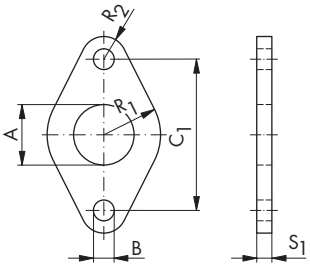
Code	Ø	T	U	P	V	W	X	Z
23.314	8, 10	8	4	4	8	23.2	18.2	M4
19.008.07	12, 16	12	6	6	12	31	24	M6
19.008.08	20	16	8	8	16	42	32	M8
18.008.01	25	20	10	10	20	52	40	M10x1.25

Rear Trunnion Ø 8mm - 25mm

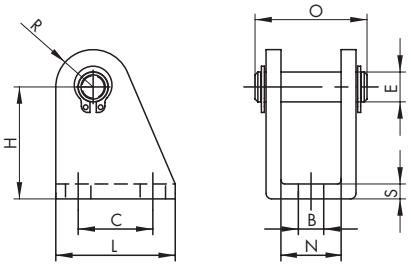
Code	Ø	B	E	C	H	L	N	O	R	S (± 0.2)
23.313	8, 10	4.5	4	12.5	24	20	8.1	17	5	2.5
26.313	12, 16	5.5	6	16	27	25	12.1	23	7	3
28.313	20, 25	6.8	8	20	30	32	16.1	29.5	10	4

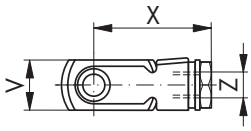
Dimensional drawings

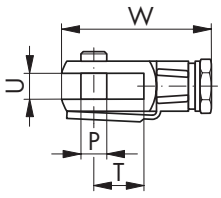
Mounting flange.
For stroke lenghts up to 50mm only.



Rear trunnion.
Not for use with type S cylinders

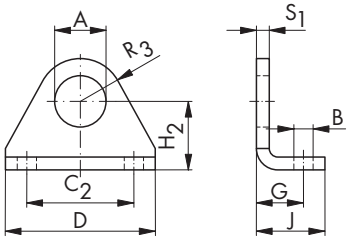






Piston rod clevis.

Mounting brackets.
For stroke lenghts up to 50mm only.
Front mounting only with type S cylinders.
2 pieces supplied per order.



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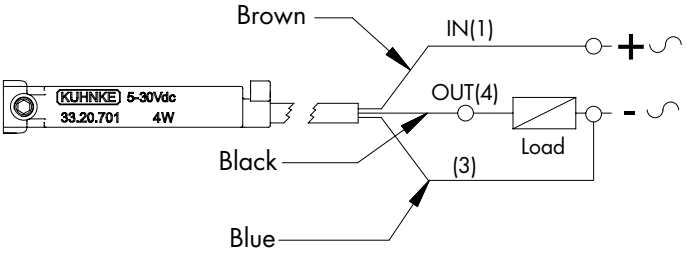
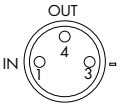
ISO 6432 CETOP Cylinder Sensors

Electronic Type Sensors

Contact Type:	PNP (N.O)
Cable:	3 x 0.14 mm²
Switching capacity:	Max. 4 W
Switching voltage:	5-30 V DC
Switching current:	Max. 200 mA
Voltage drop:	0.7 V
Switching time:	0.8 µs
Switching rate:	Max. 1 kHz
Service life:	10^{11} operations, depending on the load
Temperature range:	-5°C to +75°C Protection class: IP67
Status indicator:	LED
Housing material:	Plastic

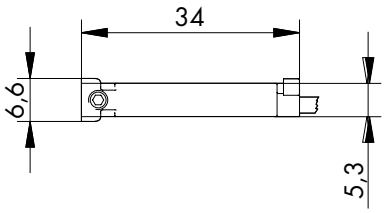




Code	Description
33.20.701	with cable L = 2000 mm
33.20.781	socket M8, cable L = 300 mm

Order fastening clamps separately.

Dimensional drawings



M8 connecting leads

Code	Description
PL08B3.V250.30	cable L = 3000 mm
PL08B3.V250.50	cable L = 5000 mm

Fastening clamps

Ø	*Code*
8	33.008.23.01
10	33.008.24.01
12	33.008.25.01
16	33.008.26.01
20	33.008.27.01
25	33.008.28.01

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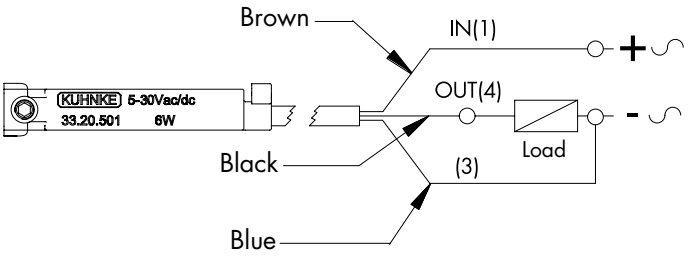
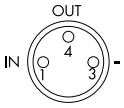
ISO 6432 CETOP Cylinder Sensors

REED Type Sensors 2 & 3 Wires

Position Transmitter REED (3 wires)

Contact type:	N.O.
Cable:	3 x 0.14 mm²
Switching capacity:	Max. 6 W
Switching voltage:	5-30 V AC/DC
Switching current:	Max. 500 mA
Voltage drop:	0.1 V
Switching time:	0.6 ms
Switching rate:	Max. 400 Hz
Service life:	10^7 operations, depending on the load
Temperature range:	-5°C to +75°C Protection class: IP67
Status indicator:	LED
Housing material:	Plastic



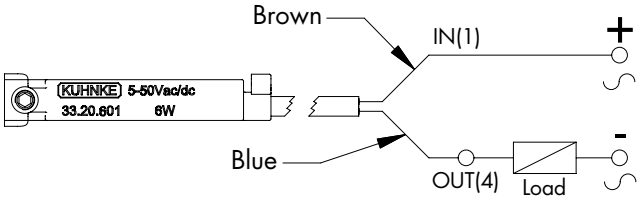


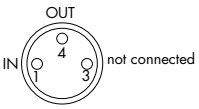
Code	Description
33.20.501	with cable L = 2000 mm
33.20.581	socket M8, cable L = 300 mm

Order fastening clamps separately.

Position Transmitter REED (2 wires)

Contact type:	N.O.
Cable:	2 x 0.14 mm²
Switching capacity:	Max. 6 W
Switching voltage:	5-50 V AC/DC
Switching current:	Max. 200 mA
Voltage drop:	3 V
Switching time:	0.6 ms
Switching rate:	Max. 400 Hz
Service life:	10^7 operations, depending on the load
Temperature range:	-5°C to +75°C Protection class: IP67
Status indicator:	LED
Housing material:	Plastic

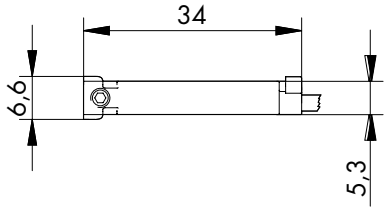




Code	Description
33.20.601	with cable L = 2000 mm
33.20.681	socket M8, cable L = 300 mm

Order fastening clamps separately.

Dimensional drawings



M8 connecting leads

Code	Description
PL08B3.V250.30	cable L = 3000 mm
PL08B3.V250.50	cable L = 5000 mm

Fastening clamps

Ø	*Code*
8	33.008.23.01
10	33.008.24.01
12	33.008.25.01
16	33.008.26.01
20	33.008.27.01
25	33.008.28.01

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CETOP Pneumatic Cylinder

Type S Without Cushioning Ø 8mm - 12mm

Technical information

Operating pressure: Single acting Ø8mm 2-10 bar/Ø10-12mm 1.5-10 bar
Double acting Ø8-10mm 1.5-10 bar/Ø12mm 1.0-10 bar
Temperature range: -20˚C...+70˚C
Housing/end caps: Cr-Ni steel/Aluminium
Rod: Cr-Ni steel
Seals: Perbunan
Lubricant: Shell Tellus C10
Operating medium: 5 micron filtered, lubricated or non-lubricated compressed air.

Other information:

For ATEX certification use code "X" for example 23.**X**.151.XXX
Sensors are available for this product, see data sheets TX1002/TX1003.
Mountings are available for this product, see data sheets MS1005.

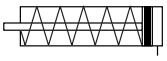
Ø	A	B	C	D	E	F	G	J	K	L	M	SØ	T	V	SW1	SW2	*Single acting Max stroke available*	*Double acting Max stroke available*
8	12	M12x1.25	16	M4	12	15	M5	-	12	55	5	10	19	7	-	8	50 mm	150 mm
10	12	M12x1.25	16	M4	12	15	M5	-	12	56	5	12	19	7	-	10	50 mm	150 mm
12	17	M16x1.5	22	M6	16	20	M5	3.5	19.5	64	5	14	24	8	5	12	50 mm	300 mm

Dimensional drawings & ordering information

Minimum/maximum strokes apply, see table.

Single Acting With Magnetic Piston
Springs are designed for the return of the piston not the coupled mass.

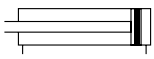
To order: **23.151.XXX** 8mm bore + stroke
24.151.XXX 10mm bore + stroke
25.151.XXX 12mm bore + stroke



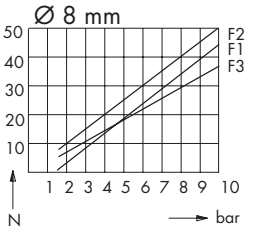
Non-magnetic versions are also available, for example 2X.15.XXX

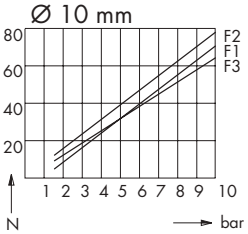
Double Acting With Magnetic Piston
Area ratio (due to the reduction of the piston rod section).
Ø8 4:3 Ø10 6:5 Ø12 4:3

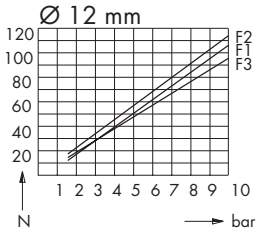
To order: **23.251.XXX** 8mm bore + stroke
24.251.XXX 10mm bore + stroke
25.251.XXX 12mm bore + stroke



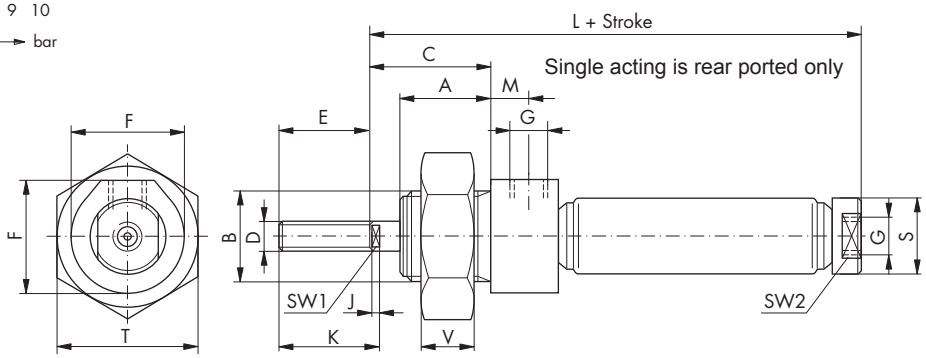
Non-magnetic versions are also available, for example 2X.25.XXX







F1 = single acting cylinders
F2 = double acting cylinders in forward stroke
F3 = double acting cylinders in return stroke



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CETOP Pneumatic Cylinder

Type S Without Cushioning Ø 16mm - 25mm

Technical information

Operating pressure: Single acting 1.5-10 bar
Double acting Ø16mm 1.0-10 bar/Ø20-25mm 0.5-10 bar
Temperature range: -20˚C...+70˚C
Housing/end caps: Cr-Ni steel/Aluminium
Rod: Cr-Ni steel
Seals: Perbunan
Lubricant: Shell Tellus C10
Operating medium: 5 micron filtered, lubricated or non-lubricated compressed air.

Other information:

For ATEX certification use code "X" for example 26.**X**.151.XXX
Sensors are available for this product, see data sheets TX1002/TX1003.
Mountings are available for this product, see data sheets MS1005.

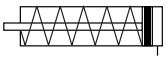
Ø	A	B	C	D	E	F	G	J	K	L	M	SØ	T	V	SW1	SW2	*Single acting Max stroke available*	*Double acting Max stroke available*
16	17	M16x1.5	22	M6	16	20	M5	3.5	19.5	74	5	18	24	8	5	16	50 mm	350 mm
20	20	M22x1.5	24	M8	20	27	G1/8	4	23	82	8	22	32	10	7	19	50 mm	500 mm
25	22	M22x1.5	28	M10x1.25	22	27	G1/8	4	26	90	8	27	32	10	9	24	50 mm	500 mm

Dimensional drawings & ordering information

Minimum/maximum strokes apply, see table.

Single Acting With Magnetic Piston
Springs are designed for the return of the piston not the coupled mass.

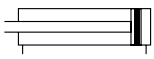
To order: **26.151.XXX** 16mm bore + stroke
27.151.XXX 20mm bore + stroke
28.151.XXX 25mm bore + stroke



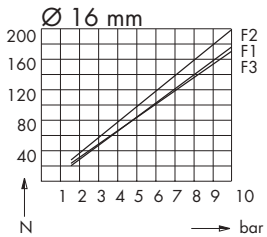
Non-magnetic versions are also available, for example 2X.15.XXX

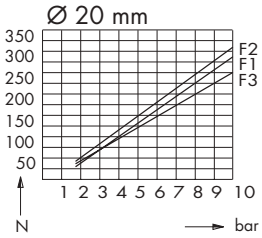
Double Acting With Magnetic Piston
Area ratio (due to the reduction of the piston rod section).
Ø16-25 7:6

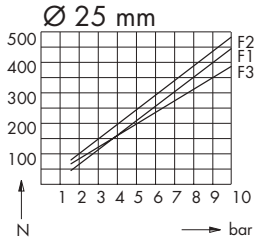
To order: **26.251.XXX** 16mm bore + stroke
27.251.XXX 20mm bore + stroke
28.251.XXX 25mm bore + stroke



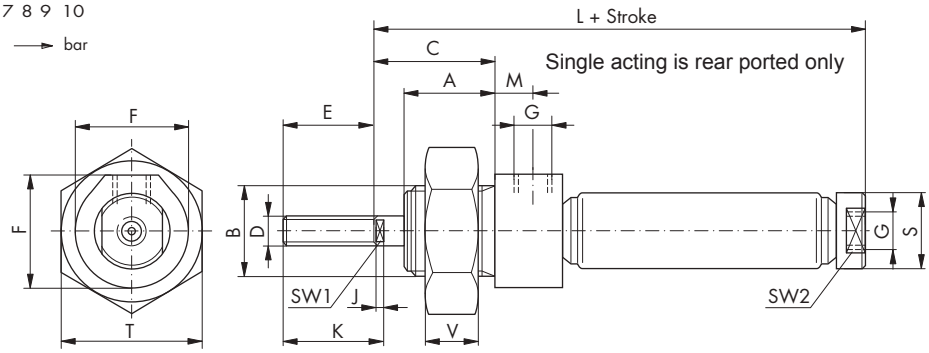
Non-magnetic versions are also available, for example 2X.25.XXX







F1 = single acting cylinders
F2 = double acting cylinders in forward stroke
F3 = double acting cylinders in return stroke



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CETOP Pneumatic Cylinder ISO 6432

Type ISO 6432 Without Cushioning Ø 8mm - 12mm

Technical information

Operating pressure: Single acting Ø8mm 2-10 bar/Ø10-12mm 1.5-10 bar
Double acting Ø8-10mm 1.5-10 bar/Ø12mm 1.0-10 bar
Temperature range: -20˚C...+70˚C
Housing/end caps: Cr-Ni steel/Aluminium
Rod: Cr-Ni steel
Seals: Perbunan
Lubricant: Shell Tellus C10
Operating medium: 5 micron filtered, lubricated or non-lubricated compressed air.

Other information:

For ATEX certification use code "X" for example 23.**X**.191.XXX
Sensors are available for this product, see data sheets TX1002/TX1003.
Mountings are available for this product, see data sheets MS1005.

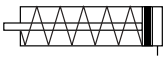
Ø	A	B	C	D	E	F	G	H	J	K	L	M	N	O (H9)	R (d13)	T	V	SW1	Single acting Max stroke available	Double acting Max stroke available
8	12	M12x1.25	16	M4	12	15	M5	64	-	12	72	5	6	4	8	19	7	-	50 mm	150 mm
10	12	M12x1.25	16	M4	12	15	M5	64	-	12	72	5	6	4	8	19	7	-	50 mm	150 mm
12	17	M16x1.5	22	M6	16	20	M5	75	3.5	19.5	85	5	9	6	12	24	8	5	50 mm	300 mm

Dimensional drawings & ordering information

Minimum/maximum strokes apply, see table.

Single Acting With Magnetic Piston
Springs are designed for the return of the piston not the coupled mass.

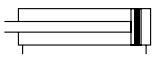
To order: **23.191.XXX** 8mm bore + stroke
24.191.XXX 10mm bore + stroke
25.191.XXX 12mm bore + stroke



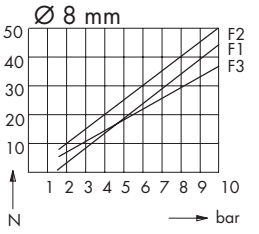
Non-magnetic versions are also available, for example 2X.19.XXX

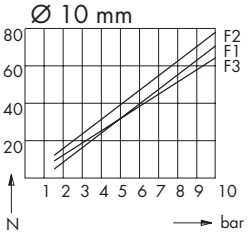
Double Acting With Magnetic Piston
Area ratio (due to the reduction of the piston rod section).
Ø8 4:3 Ø10 6:5 Ø12 4:3

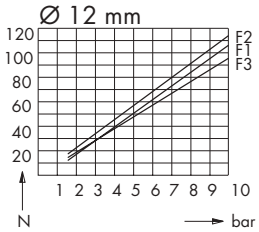
To order: **23.291.XXX** 8mm bore + stroke
24.291.XXX 10mm bore + stroke
25.291.XXX 12mm bore + stroke



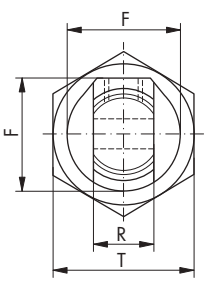
Non-magnetic versions are also available, for example 2X.29.XXX

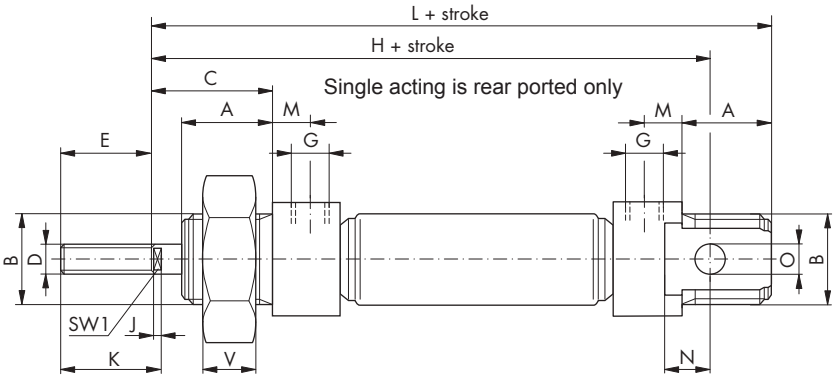






F1 = single acting cylinders
F2 = double acting cylinders in forward stroke
F3 = double acting cylinders in return stroke





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CETOP Pneumatic Cylinder ISO 6432

Type ISO 6432 With Cushioning Ø 16mm - 25mm

Technical information

Operating pressure: Double acting Ø16mm 1.0-10 bar/Ø20-25mm 0.5-10 bar
Temperature range: -20˚C...+70˚C
Housing/end caps: Cr-Ni steel/Aluminium
Rod: Cr-Ni steel
Seals: Perbunan
Lubricant: Shell Tellus C10
Operating medium: 5 micron filtered, lubricated or non-lubricated compressed air.

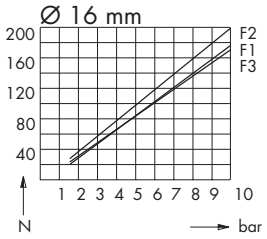
Other information:

For ATEX certification use code "X" for example 26.**X**.241.XXX
Sensors are available for this product, see data sheets TX1002/TX1003.
Mountings are available for this product, see data sheets MS1005.

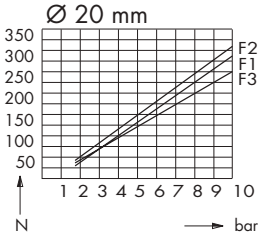
Ø	A	B	C	D	E	F	G	H	J	K	L	M	N	O (H9)	P	R (d13)	T	U	V	X	SW1	Double acting Max stroke available
16	17	M16x1.5	22	M6	16	21	M5	82	3.5	19.5	95	5	9	6	6.5	12	24	22	8	3	5	350 mm
20	20	M22x1.5	24	M8	20	27	G1/8	95	4	22.5	110	5	12	8	8	16	32	27	10	4	7	500 mm
25	22	M22x1.5	28	M10x1.25	22	27	G1/8	104	4	26	119	5	12	8	9	16	32	27	10	4	9	500 mm

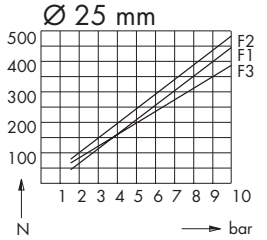
Dimensional drawings & ordering information

Minimum/maximum strokes apply, see table.



F1 = single acting cylinders
F2 = double acting cylinders in forward stroke
F3 = double acting cylinders in return stroke





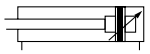
Length of cushioning:

Ø 16	13.5mm
Ø 20-25	16.0mm

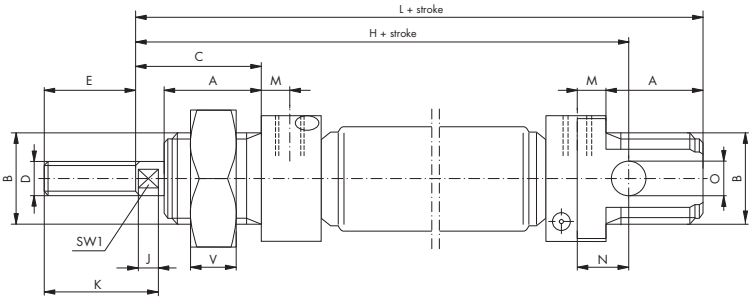
Double Acting With Magnetic Piston
Area ratio (due to the reduction of the piston rod section).
Ø16-25 7:6

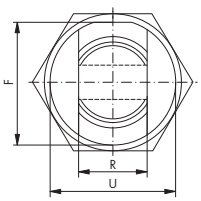
To order:

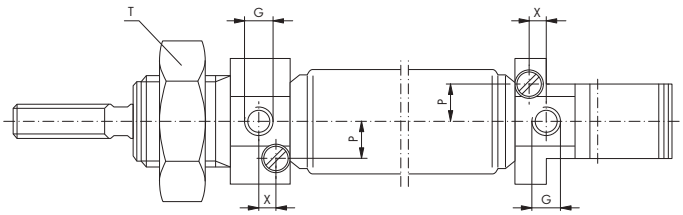
26.241.XXX	16mm bore + stroke
27.241.XXX	20mm bore + stroke
28.241.XXX	25mm bore + stroke



Non-magnetic versions are also available, for example 2X.24.XXX







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CETOP Pneumatic Cylinder ISO 6432

Type ISO 6432 Without Cushioning Ø 16mm - 25mm

Technical information

Operating pressure: Single acting 1.5-10 bar
Double acting Ø16mm 1.0-10 bar/Ø20-25mm 0.5-10 bar
Temperature range: -20˚C...+70˚C
Housing/end caps: Cr-Ni steel/Aluminium
Rod: Cr-Ni steel
Seals: Perbunan
Lubricant: Shell Tellus C10
Operating medium: 5 micron filtered, lubricated or non-lubricated compressed air.

Other information:

For ATEX certification use code "X" for example 26.**X**.191.XXX
Sensors are available for this product, see data sheets TX1002/TX1003.
Mountings are available for this product, see data sheets MS1005.

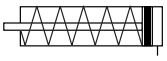
Ø	A	B	C	D	E	F	G	H	J	K	L	M	N	O (H9)	R (d13)	T	V	SW1	*Single acting Max stroke available*	*Double acting Max stroke available*
16	17	M16x1.5	22	M6	16	20	M5	82	3.5	19.5	95	5	9	6	12	24	8	5	50 mm	350 mm
20	20	M22x1.5	24	M8	20	27	G1/8	95	4	23	110	8	12	8	16	32	10	7	50 mm	500 mm
25	22	M22x1.5	28	M10x1.25	22	27	G1/8	104	4	26	119	8	12	8	16	32	10	9	50 mm	500 mm

Dimensional drawings & ordering information

Minimum/maximum strokes apply, see table.

Single Acting With Magnetic Piston
Springs are designed for the return of the piston not the coupled mass.

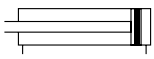
To order: **26.191.XXX** 16mm bore + stroke
27.191.XXX 20mm bore + stroke
28.191.XXX 25mm bore + stroke



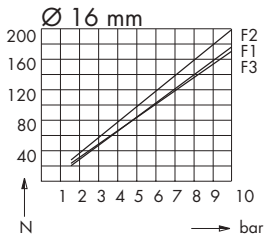
Non-magnetic versions are also available, for example 2X.19.XXX

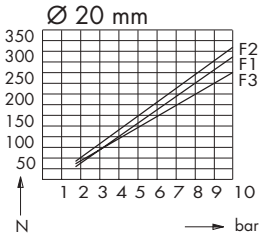
Double Acting With Magnetic Piston
Area ratio (due to the reduction of the piston rod section).
Ø16-25 7:6

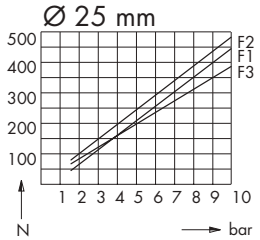
To order: **26.291.XXX** 16mm bore + stroke
27.291.XXX 20mm bore + stroke
28.291.XXX 25mm bore + stroke



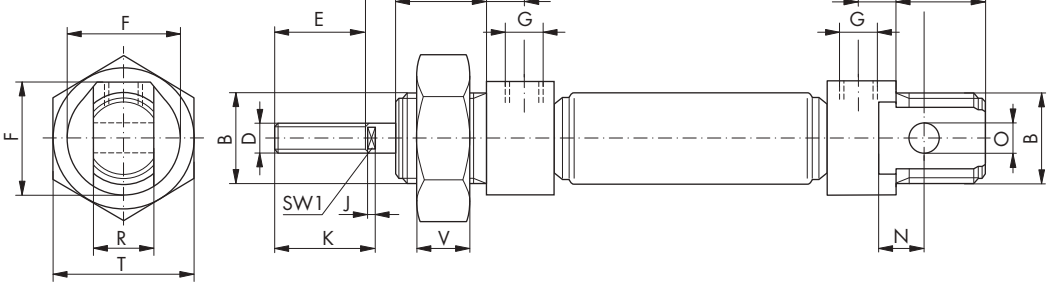
Non-magnetic versions are also available, for example 2X.29.XXX







F1 = single acting cylinders
F2 = double acting cylinders in forward stroke
F3 = double acting cylinders in return stroke



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CETOP Pneumatic Cylinder

Type U Through Rod Without Cushioning Ø 8mm - 12mm

Technical information

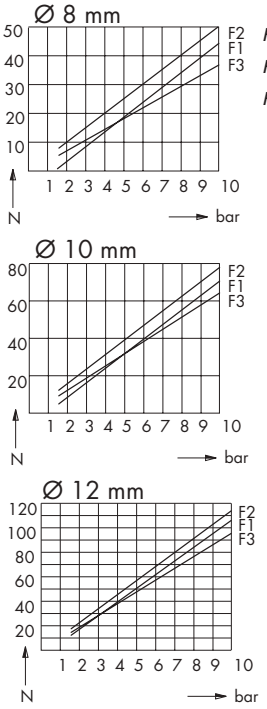
Operating pressure:	Double acting Ø8-10mm 1.5-10 bar/Ø12mm 1.0-10 bar
Temperature range:	-20˚C...+70˚C
Housing/end caps:	Cr-Ni steel/Aluminium
Rod:	Cr-Ni steel
Seals:	Perbunan
Lubricant:	Shell Tellus C10
Operating medium:	5 micron filtered, lubricated or non-lubricated compressed air.

Other information:

For ATEX certification use code "X" for example 23.**X**.601.XXX
Sensors are available for this product, see data sheetsTX1002/TX1003.
Mountings are available for this product, see data sheets MS1005.

Ø	A	B	C	D	E	F	G	J	L	L1	SW1	SW2	V	V1
8	12	M12x1.25	16	M4	12	15	M5	-	44	28	-	7	7	3
10	12	M12x1.25	16	M4	12	15	M5	-	44	28	-	7	7	3
12	17	M16x1.5	22	M6	16	20	M5	3.5	46	38	5	10	8	4

Dimensional drawings & ordering information

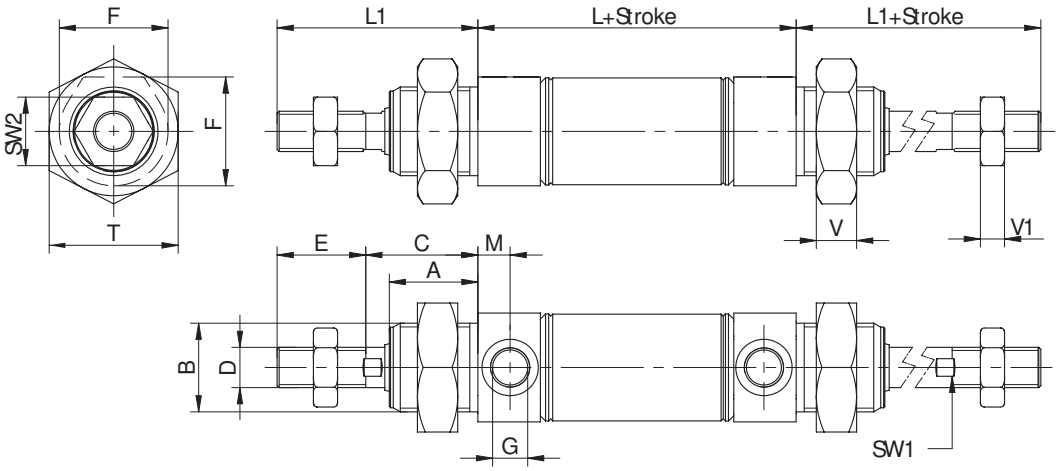


F1 = single acting cylinders
F2 = double acting cylinders in forward stroke
F3 = double acting cylinders in return stroke

Double Acting With Magnetic Piston
Area ratio (due to the reduction of the piston rod section).
Ø8 4:3 Ø10 6:5 Ø12 4:3

To order:	**23.601.XXX**	8mm bore + stroke
	24.601.XXX	10mm bore + stroke
	25.601.XXX	12mm bore + stroke

Non-magnetic versions are also available, for example 2X.60.XXX



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CETOP Pneumatic Cylinder

Type U Through Rod Without Cushioning Ø 16mm - 25mm

Technical information

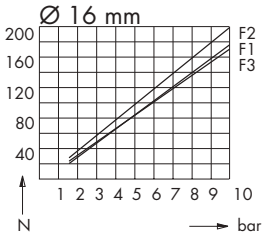
Operating pressure:	Double acting Ø16mm 1.0-10 bar/Ø20-25mm 0.5-1
Temperature range:	-20˚C...+70˚C
Housing/end caps:	Cr-Ni steel/Aluminium
Rod:	Cr-Ni steel
Seals:	Perbunan
Lubricant:	Shell Tellus C10
Operating medium:	5 micron filtered, lubricated or non-lubricated compressed air.

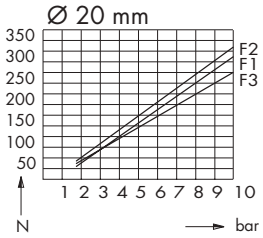
Other information:

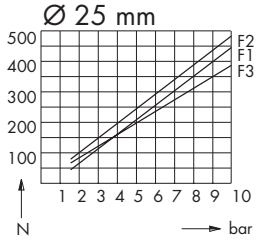
For ATEX certification use code "X" for example 26.**X**.601.XXX
Sensors are available for this product, see data sheets TX1002/TX1003.
Mountings are available for this product, see data sheets MS1005.

Ø	A	B	C	D	E	F	G	J	L	L1	SW1	SW2	V	V1
16	17	M16x1.5	22	M6	16	20	M5	3.5	56	38	5	10	8	4
20	20	M22x1.5	24	M8	20	27	G1/8	4	66	44	7	13	10	5
25	22	M22x1.5	28	M10x1.25	22	27	G1/8	4	69	50	9	17	10	8

Dimensional drawings & ordering information





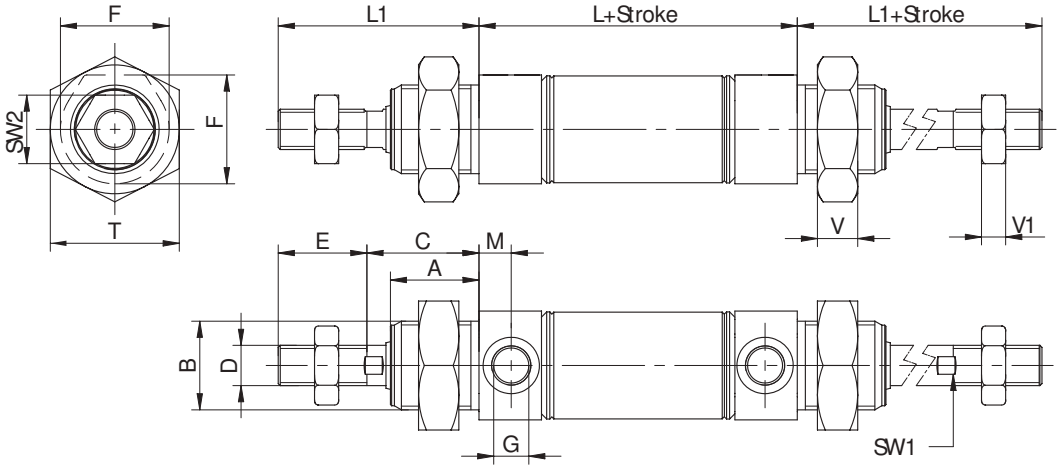


F1 = single acting cylinders
F2 = double acting cylinders in forward stroke
F3 = double acting cylinders in return stroke

Double Acting With Magnetic Piston
Area ratio (due to the reduction of the piston rod section).
Ø16-25 7:6

To order:	**26.601.XXX**	16mm bore + stroke
	27.601.XXX	20mm bore + stroke
	28.601.XXX	25mm bore + stroke

Non-magnetic versions are also available, for example 2X.60.XXX



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