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Hard copy product catalogues, and CDRoms have been published describing Kuhnke Pneumatics, Solenoids, Relays and Electronics; some divided into different books. A list of current publications is available on this web site or from our sales offices. Some may be available for download, but as substantially larger files.

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Important Note

The information shown in these documents is for guidance only. No liability is accepted for any errors or omissions. The designer or user is solely responsible for the safe and proper application of the parts, assemblies or equipment described.

ISO 15552 cylinders

Ø 125 - 320 mm





This catalogue is primarily intended for design and development engineer.

It is not an indication of delivery possibilities.

The indicated data only serve the description of the product, they are not to be understood as the guaranteed quality of the product in legal terms.

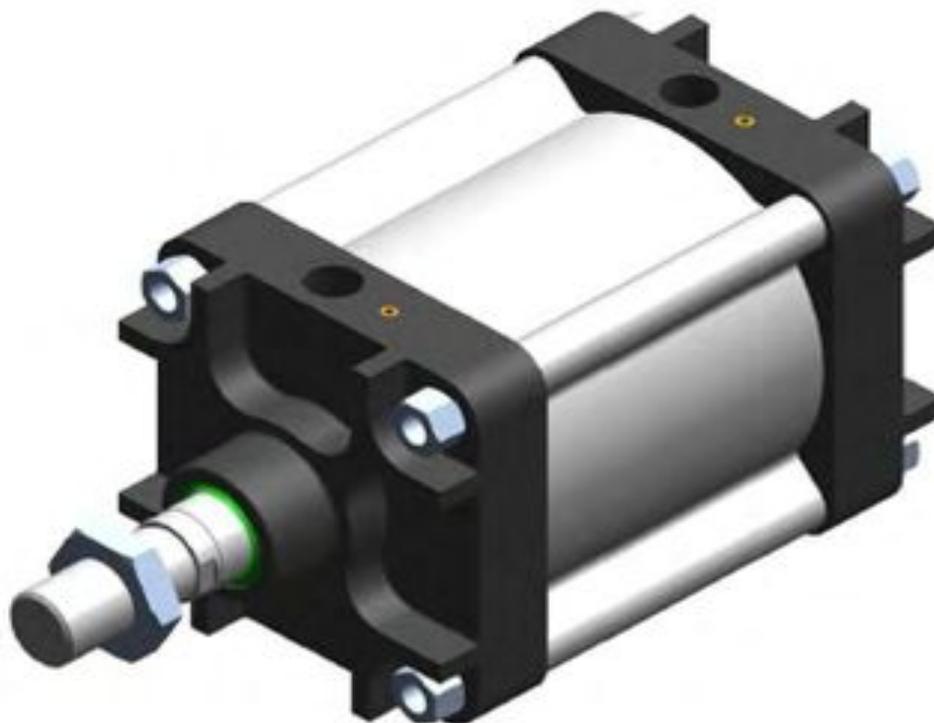
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Claims of damages against us - on whatever grounds - are excluded, except in instances of deliberate intent or gross negligence on our part.

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Technical Data



Pressure range: 1 - 10 bar

Ambient temperature range:
 NBR seals: -10°C, +80°C
 Viton® seals: -10°C, +150°C

Operating medium: compressed air, prepared

Lubricant: not necessary

Max stroke: 3000 mm

Materials:

Tube (Ø 125 - 200): anodized aluminium profile
 Tube (Ø 250 - 320): round anodized aluminium
 Tie-rods: galvanized steel
 Covers: aluminium die-cast (painted)
 Piston rod: C45 chromium-plated steel
 (stainless steel AISI 304)
 Piston: NBR rubber block (or NBR seals)
 Viton® rubber block (or Viton® seals)
 Seals: NBR rubber
 Viton®

Please consider in case of Viton® seals on magnetic version, the range of temperature is limited by the magnetic ring: in this case the upper limit is 100°C.
 Accessories for cylinders Ø 250 - 320 are realized only on demand and after our evaluation.

Stroke tolerance: Ø 125 - 200 < 500 mm: + 4 mm > 500 mm: + 5 mm
 Ø 250 - 320 < 500 mm: + 5 mm > 500 mm: + 7 mm

Force at 6 bar

Ø	push [N]	pull [N]
125	7200	6790
160	11760	11050
200	18440	17700
250	28840	27690
320	47260	40620

Length of the cushions

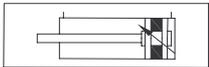
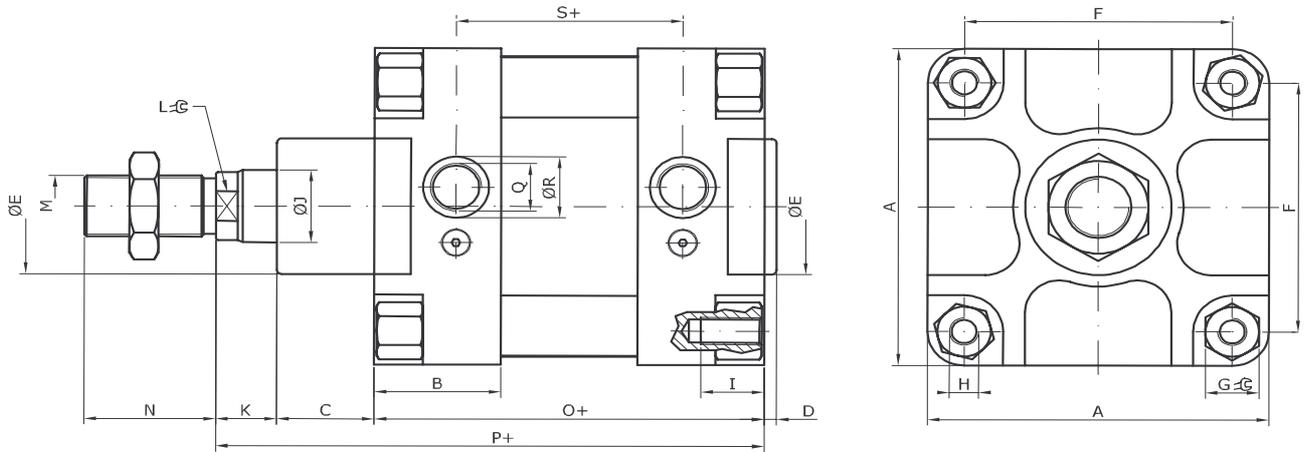
Ø	[mm]
125	35
160	45
200	45
250	50
320	-

ISO 1552 Cylinders

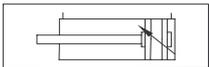
Ø 125 - 320 mm



Dimensions



Ø	A	B	C	D	ØE	F	G-G	H	I	ØJ	K	L-G	M	N	O	P	Q	ØR	S
125	140	52	40	5	60	110	22	M12	26	32	25	27	M27x2	54	160	225	G½"	27	93
160	180	60	35	5	65	140	27	M16	28,5	40	45	36	M36x2	72	180	260	G¾"	35	102
200	220	59	35	5	75	175	27	M16	23,5	40	60	36	M36x2	72	180	275	G¾"	35	104
250	280	60	50	5	90	220	38	M20	30	50	25	46	M42x2	85	230	305	G¾"	35	149
320	340	60	82	5	110	270	46	M24	30	63	28	55	M48x2	96	230	340	G1"	-	149



Order Code

	VF.	160.	0200.	DOM
Version				
with magnetic piston	VF			
without magnetic piston	VD			
Piston diameter				
Ø 125		125		
Ø 160		160		
Ø 200		200		
Ø 250		250		
Ø 320		320		
Stroke				
mm			xxxx	
Design				
double acting				DOM
through rod				DOM.1
stainless steel piston rod				DOM.4
Viton® seals				DOM.8

Special versions	VF.	160.	0200.	zzzz
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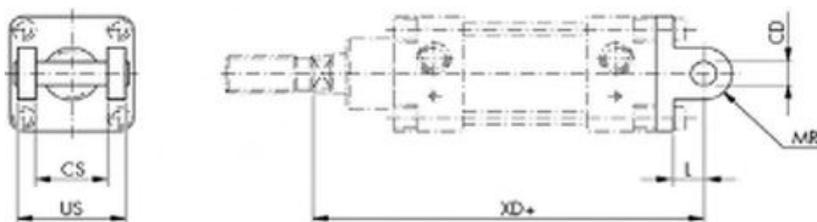
zzzz = project no. (added by factory)

ISO 15552 Cylinders

Ø 125 - 200 mm - Accessories



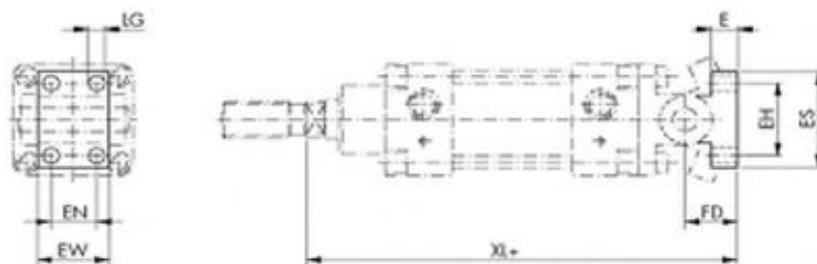
Female Trunnion



Order code	Ø	CS	US	L	XD	CD	MR
18.001.07	125	70	130	30	275	25	26
18.001.08	160	90	170	35	315	30	31
18.001.09	200	90	170	35	335	30	31

bolt and fixing screws included

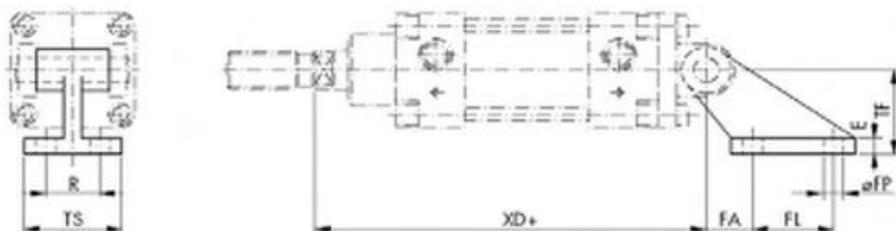
Trunnion Mounting Bracket



Order code	Ø	EW	EN	LG	XL	FD	E	EH	ES
18.003.07	125	70	32	14	316	41	16	90	115
18.003.08	160	90	43	18	370	55	20	150	180
	200	90	43	18	390	55	20	150	180

Cetop std - for use with female trunnion

Square angle trunnion mounting bracket



Order code	Ø	TS	R	FP	XD	FA	FL	E	TF
18.004.07	125	80	50	14	275	40	70	16	90
18.004.08	160	110	63	18	315	50	110	20	140
	200	110	63	18	335	50	110	20	140

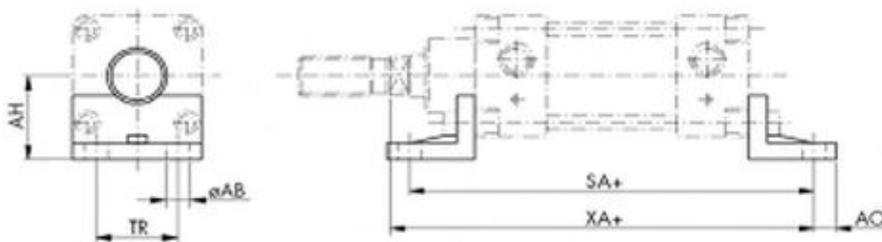
Cetop std - for use with female trunnion

ISO 15552 Cylinders

Ø 125 - 200 mm - Accessories



Mounting bracket



Order code	Ø	AH	TR	AB	SA	XA	AO
18.005.07	125	90	90	16	250	270	15
18.005.08	160	115	115	18	300	320	20
18.005.09	200	135	135	22	320	345	30

fixing screws included
kit includes one bracket only

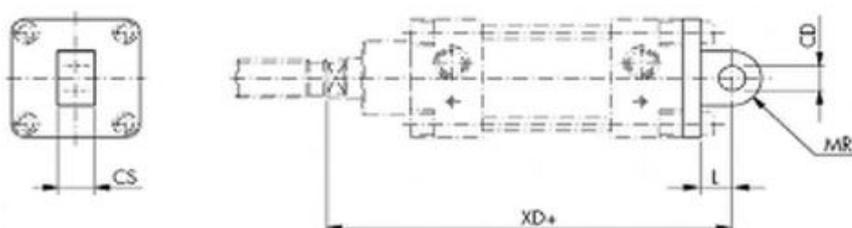
Mounting plate



Order code	Ø	W	R	FP	TF	UF	AR	ZF	ZB
18.006.07	125	45	90	16	180	220	140	245	225
18.006.08	160	60	115	18	230	270	180	280	260
18.006.09	200	70	135	22	270	312	225	300	275

fixing screws included

Male Trunnion



Order code	Ø	CS	CD	L	MR	XD
18.002.07	125	70	25	30	26	275
18.002.08	160	90	30	35	31	315
18.002.09	200	90	30	35	31	335

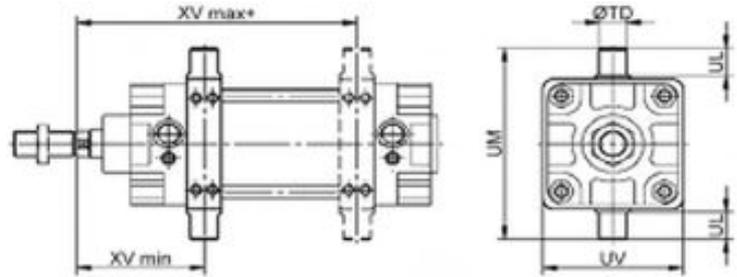
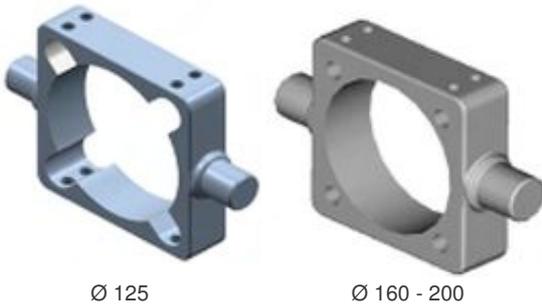
fixing screws included

ISO 15552 Cylinders

Ø 125 - 200 mm - Accessories



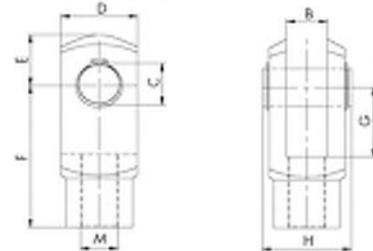
Swivel Bearing



Order code	Ø	TD	UL	UM	UV	XV _{min}	XV _{max+}
18.007.07	125	25	25	210	154	133,5	156,5
18.007.08	160	32	32	264	190	160	180
18.007.09	200	32	32	314	240	174	196

adjustable
 Ø 160-200 we recommend to assemble swivel bearing on threaded tie-rods and fix it with nuts

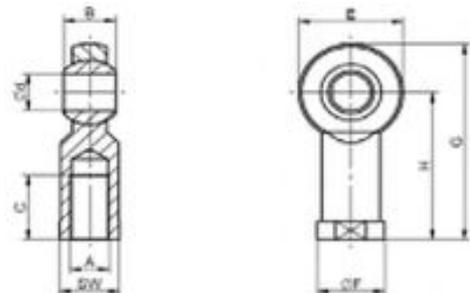
Clevis



Order code	Ø	M	B	C	D	E	F	G	H
18.008.05	125	M27x2	30	30	55	38	110	54	65
18.008.06	160	M36x2	35	35	70	44	144	72	84
	200								

lockable pin included

Rod end - spherical bearing



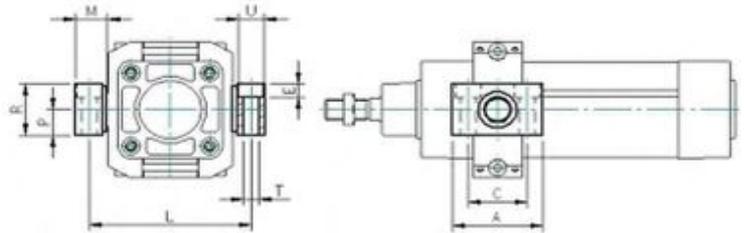
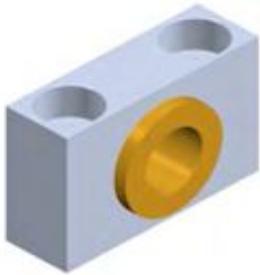
Order code	Ø	A	d	B	E	F	H	G	C	SW
18.009.05	125	M27x2	30	37	70	50	110	145	51	41
18.009.06	160	M36x2	35	43	80	58	125	165	56	50
	200									

ISO 15552 Cylinders

Ø 125 - 200 mm - Accessories



Swivel bearing support



Order code	Ø	A	C	T	E	U	L	P	R	M
20.007.16	125	75	50	14	13	20	192	25	50	28,5
20.007.18	160	100	66	18	17	26	245	30	60	40
	200						295			

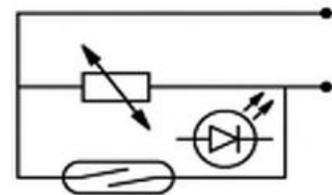
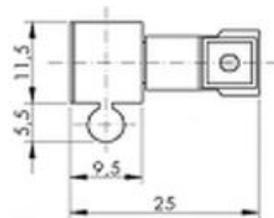
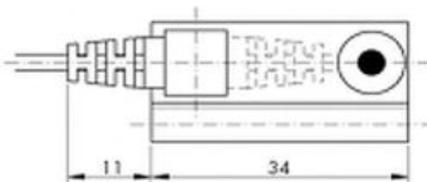
set of 2 pcs

Position transmitter

Reed 2 pole with plug connector

33.18.115

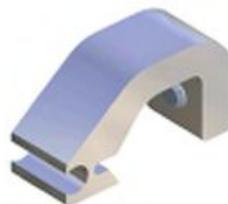
- Contact type: N.O.
- Switching capacity: max 10 VA
- Switching voltage: 3-230 V AC/DC
- Switching current: max 500 mA
- Voltage drop: -
- Switching time: 0,5 ms
- Service life: 10⁷ switchings, depending on the load
- Housing material: plastic
- Protection class: IP67
- Ambient temperature range: -20°C ÷ +85°C
- Status indicator: LED



Fastening clamps

to assemble position transmitter 33.18.115

This fastening clamp permits to assemble the position transmitter 33.18.115 on all ISO 15552 cylinders from Ø 125 to Ø 200



Order code	Ø
33.009.07	125
33.009.19	160
	200

Seals kit

Iso 15552 standard

Order code	Ø
SG.125VD.DOM	125
SG.160VD.DOM	160
SG.200VD.DOM	200
SG.250VD.DOM	250
SG.320VD.DOM	320

Iso 15552 with magnetic piston

Order code	Ø
SG.125VF.DOM	125
SG.160VF.DOM	160
SG.200VF.DOM	200
SG.250VF.DOM	250
SG.320VF.DOM	320

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