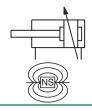


ANTI-CORROSIVE CYLINDERS WITH TIE RODS

Ø 32 to 125 mm - double acting - ISO 15552 with adjustable pneumatic cushioning



Series

FEATURES

The cylinders are designed for use in corrosive environments:

- · chemical, salty or humid admospheres
- · food processing, dairy and meat industries: high resistance to lactic acid and bactericidal sprays

GENERAL

Detection Equipped or not for magnetic position detectors Fluid Air or neutral gas, filtered, lubricated or not

Operating pressure 10 bar max. **Ambient temperature** -20°C to +80°C **Standards** ISO 15552

CONSTRUCTION

Stainless steel 1.4301 AISI 304 Barrel Piston rod Stainless steel 1.4571 AISI 316 TI

Tie rods Ø 32 to 100 : Stainless steel 1.4571 AISI 316 TI

Ø 125 : Stainless steel 1.4301 AISI 304

Front and rear covers Stainless steel 1.4301 AISI 304 Piston rod nut Stainless steel 1.4301 AISI 304 **Seals** PUR (polyurethane) - NBR (nitrile)

Bearing Sintered bronze Cushioning Adjustable pneumatic

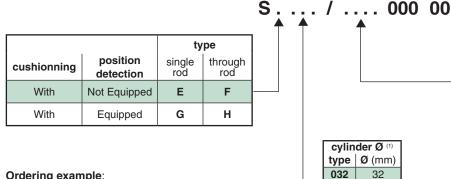
SPECIFICATIONS

DEFINING THE CYLINDER CATALOGUE NUMBER

Standard version: tie rods with adjustable pneumatic cushioning, equipped for magnetic position detectors To order, please specify:

- CYLINDER: The cylinder type (single rod, through rod)
 - The cylinder diameter and its stroke
- DETECTORS : The magnetic position detectors must be ordered separately :
 - IP69K Magnetic position detector





standard stroke (mm) (2) Ø (recommended standard strokes) (mm) 25 | 50 | 80 | 100 | 125 | 160 | 200 | 250 | 320 | 400 | 500 • • • • 50-63 • • • • • • • • • • • 80 • • • • • • 100 • • • • • (2) Other strokes on request.

•

•

Ordering example:

- Cylinder single rod with pneumatic cushioning equipped for detectors = G
- Cylinder Ø 63 mm = **063**
- Stroke 80 mm = **080**

Ordering catalogue number: SG063/008000000

OPTIONS

Grease for food processing, replace the 2 last digits by N2, example: SG063/0080000N2

040

050

063

080

100

125

40

50

63

80

100

125 ¹⁾ Ø 160 and 200mm

服务热线:4006-918-365

网址:http://www.ivalve.cc

MOUNTINGS: see following pages

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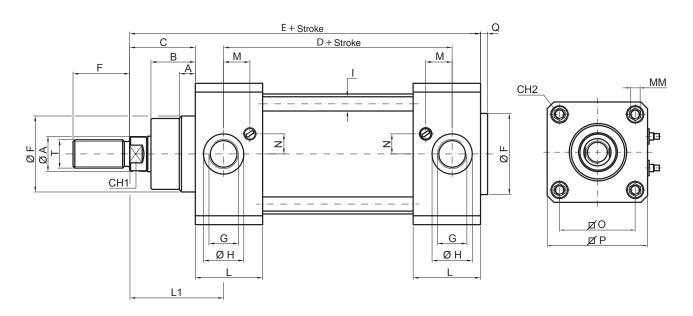


DIMENSIONS (mm)



Double Acting Cylinder with/without Magnetic Piston

Single Rod End, Types SE or SG





Thrust and retract forces (6 bar) single rod end

Till dot dila Toti dot	ioroco (o bar) orrigio	
Ø (mm)	Thurst force (N)	Retract force (N)
32	458	394
40	716	601
50	1180	939
63	1775	1596
80	2863	2583
100	4474	4194
125	6991	6532

Туре	Ø (mm)	ØA	Α	В	С	D	E	F	ØF	G	L
SE; SG	32	12,0	9,0	18,0	26,0	67,0	121,0	22,0	30,0	G 1/8	30,8
SE; SG	40	16,0	9,0	22,0	30,0	77,0	135,0	24,0	35,0	G 1/4	33,0
SE; SG	50	20,0	9,0	25,5	37,0	78,0	143,0	32,0	40,0	G 1/4	33,7
SE; SG	63	20,0	9,0	25,0	37,0	89,0	158,0	32,0	45,0	G 3/8	38,0
SE; SG	80	25,0	9,0	35,0	46,0	96,0	174,0	40,0	45,0	G 3/8	40,0
SE; SG	100	25,0	9,0	38,0	51,0	102,0	189,0	40,0	55,0	G 1/2	43,5
SE; SG	125	32,0	11,0	46,0	65,0	124,0	225,0	54,0	60,0	G 1/2	53,2

type	Ø (mm)	L1	М	ММ	N	0	Р	Q	Т	CH1	CH2
SE; SG	32	39,5	11,3	M6	6,0	32,5	50,0	4,0	M10x1,25	10	6
SE; SG	40	44,0	13,0	M6	8,0	38,0	55,0	4,0	M12x1,25	13	6
SE; SG	50	51,0	12,7	M8	11,8	46,5	65,0	4,0	M16x1,5	16	8
SE; SG	63	53,0	15,8	M8	11,7	56,5	75,0	4,0	M16x1,5	16	8
SE; SG	80	62,0	16,3	M10	15,5	72,0	95,0	4,0	M20x1,5	21	10
SE; SG	100	69,0	15,5	M10	15,5	89,0	110,0	4,0	M20x1,5	21	10
SE; SG	125	83,0	25,0	M12	19,0	110,0	139,0	6,0	M27x2,0	28	12

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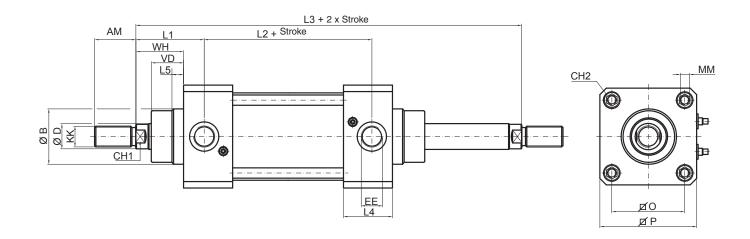


DIMENSIONS (mm)



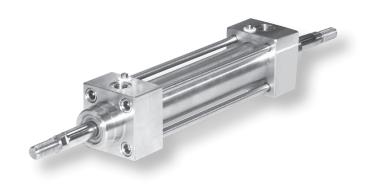
Double Acting Cylinder with/without Magnetic Piston

Double Rod End, Types SF or SH



Retract and thrust forces (6 bar) double rod end

Ø (mm)	thrust/retract force (N)
32	394
40	601
50	939
63	1596
80	2583
100	4194
125	6532



type	Ø (mm)	ØD	L5	VD	WH	L2	L3	АМ	Ø B	EE	L4
SF; SH	32	12,0	9,0	18,0	26,0	67,0	121,0	22,0	30,0	G 1/8	30,8
SF; SH	40	16,0	9,0	22,0	30,0	77,0	135,0	24,0	35,0	G 1/4	33,0
SF; SH	50	20,0	9,0	25,5	37,0	78,0	143,0	32,0	40,0	G 1/4	33,7
SF; SH	63	20,0	9,0	25,0	37,0	89,0	158,0	32,0	45,0	G 3/8	38,0
SF; SH	80	25,0	9,0	35,0	46,0	96,0	174,0	40,0	45,0	G 3/8	40,0
SF; SH	100	25,0	9,0	38,0	51,0	102,0	189,0	40,0	55,0	G 1/2	43,5
SF; SH	125	32,0	11,0	46,0	65,0	124,0	225,0	54,0	60,0	G 1/2	53,2

type	Ø (mm)	L1	М	ММ	N	0	Р	Q	Т	CH1	CH2
SF; SH	32	39,5	11,3	M6	6,0	32,5	50,0	4,0	M10x1,25	10	6
SF; SH	40	44,0	13,0	M6	8,0	38,0	55,0	4,0	M12x1,25	13	6
SF; SH	50	51,0	12,7	M8	11,8	46,5	65,0	4,0	M16x1,5	16	8
SF; SH	63	53,0	15,8	M8	11,7	56,5	75,0	4,0	M16x1,5	16	8
SF; SH	80	62,0	16,3	M10	15,5	72,0	95,0	4,0	M20x1,5	21	10
SF; SH	100	69,0	15,5	M10	15,5	89,0	110,0	4,0	M20x1,5	21	10
SF; SH	125	83,0	25,0	M12	19,0	110,0	139,0	6,0	M27x2	28	12

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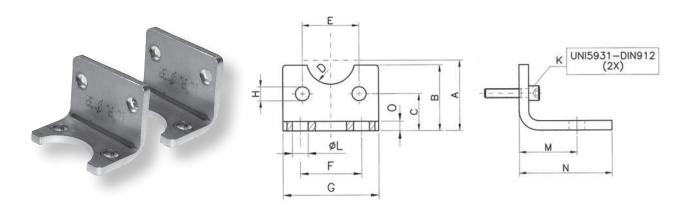


DIMENSIONS (mm), **WEIGHT** (kg)



Foot Brackets (outside) to ISO 15552

for Cylinder with Piston Diameter 32 to 125 mm Stainless steel AISI 304

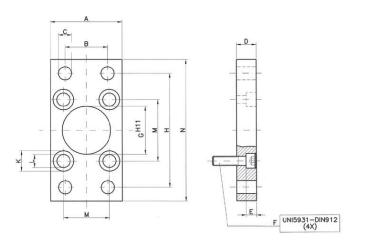


Ø (mm)	Α	В	С	D	E	F	G	Н	K	L	M	N	0	weight	catalogue number
32	32,0	30,0	15,75	R 15,0	32,5	32,0	45,0	7,0	M6x20	7,0	24,0	35,0	4,0	0,130	VC01/032-VA
40	36,0	30,0	17,0	R 17,5	38,0	36,0	52,0	7,0	M6x20	9,0	28,0	36,0	4,0	0,160	VC01/040-VA
50	45,0	36,0	21,75	R 2,00	46,5	45,0	65,0	9,0	M8x25	9,0	32,0	47,0	5,0	0,340	VC01/050-VA
63	50,0	35,0	21,75	R 22,5	56,5	50,0	75,0	9,0	M8x25	9,0	32,0	45,0	5,0	0,380	VC01/063-VA
80	63,0	47,0	27,0	R 22,5	72,0	63,0	95,0	11,0	M10x25	12,0	41,0	55,0	6,0	0,765	VC01/080-VA
100	71,0	53,0	26,5	R 27,5	89,0	75,0	115,0	11,0	M10x30	14,0	41,0	57,0	6,0	0,905	VC01/100-VA
125	90,0	70,0	35,0	R 30,0	110,0	90,0	140,0	14,0	M12x30	16,0	45,0	70,0	8,0	2,180	VC01/125-VA

Flange to ISO 15552

for Cylinder with Piston Diameter 32 to 125 mm Stainless steel AISI 304





Ø (mm)	Α	В	С	D	E	F	G	Н	K	L	М	N	weight	catalogue number
32	45,0	32,0	7,0	10,0	6,5	M6x16	30,0	64,0	10,5	6,5	32,5	80,0	0,190	VC02/032-VA
40	52,0	36,0	9,0	10,0	6,5	M6x16	35,0	72,0	10,5	6,5	38,0	90,0	0,250	VC02/040-VA
50	65,0	45,0	9,0	12,0	8,5	M8x20	40,0	90,0	13,5	8,5	46,5	110,0	0,480	VC02/050-VA
63	75,0	50,0	9,0	12,0	8,5	M8x20	45,0	100,0	13,5	8,5	56,5	120,0	0,620	VC02/063-VA
80	95,0	63,0	12,0	16,0	10,5	M10x25	45,0	126,0	16,5	10,5	72,0	150,0	1,415	VC02/080-VA
100	115,0	75,0	14,0	16,0	10,5	M10x25	55,0	150,0	16,5	10,5	89,0	170,0	1,985	VC02/100-VA
125	140,0	90,0	16,0	20,0	9,5	M12x30	60,0	180,0	20,0	13,5	110,0	205,0	3,750	VC02/125-VA

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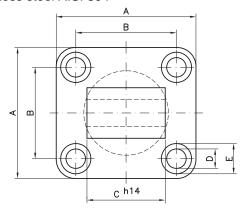


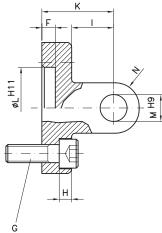
DIMENSIONS (mm), **WEIGHT** (kg)



Oscillating Brackets with Lugs to ISO 15552

for Cylinder with Piston Diameter 32 to 125 mm Stainless steel AISI 304



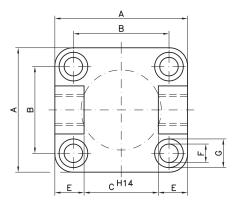


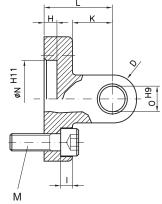


Ø (mm)	Α	В	С	D	E	F	G	Н	I	К	L	М	N	weight	catalogue number
32	45,0	32,5	26,0	6,6	11,0	5,0	M6x16	3,5	13,0	22,0	30,0	10,0	10,0	0,410	VC07/032-VA
40	52,0	38,0	28,0	6,6	11,0	5,0	M6x16	3,5	16,0	25,0	35,0	12,0	12,0	0,670	VC07/040-VA
50	65,0	46,5	32,0	9,0	15,0	5,0	M8x25	4,5	16,0	27,0	40,0	12,0	12,0	0,970	VC07/050-VA
63	75,0	56,5	40,0	9,0	15,0	5,0	M8x25	4,5	21,0	32,0	45,0	16,0	16,0	1,585	VC07/063-VA
80	95,0	72,0	50,0	11,0	18,0	5,0	M10x25	4,0	22,0	36,0	45,0	16,0	16,0	3,460	VC07/080-VA
100	115,0	89,0	60,0	11,0	18,0	5,0	M10x25	4,0	27,0	41,0	55,0	20,0	20,0	5,350	VC07/100-VA
125	140,0	110,0	70,0	14,0	20,0	7,0	M12x30	10,0	30,0	50,0	60,0	25,0	25,0	10,320	VC07/125-VA

Oscillating Brackets Fork Type to ISO 15552

for Cylinder with Piston Diameter 32 to 125 mm Stainless steel AISI 304







Ø (mm)	Α	В	С	D	E	F	G	Н	ı	К	L	М	N	0	weight	catalogue number
32	45,0	32,5	26,0	10,0	9,5	6,6	11,0	5,0	3,5	13,0	22,0	M6x16	30,0	10,0	0,410	VC08/032-VA
40	52,0	38,0	28,0	12,0	12,0	6,6	11,0	5,0	3,5	16,0	25,0	M6x16	35,0	12,0	0,670	VC08/040-VA
50	65,0	46,5	32,0	12,0	14,0	9,0	15,0	5,0	4,5	16,0	27,0	M8x20	40,0	12,0	0,970	VC08/050-VA
63	75,0	56,5	40,0	16,0	15,0	9,0	15,0	5,0	4,5	21,0	32,0	M8x20	45,0	16,0	1,585	VC08/063-VA
80	95,0	72,0	50,0	16,0	20,0	11,0	18,0	5,0	4,0	22,0	36,0	M10x30	45,0	16,0	3,460	VC08/080-VA
100	115,0	89,0	60,0	20,0	25,0	11,0	18,0	5,0	4,0	27,0	41,0	M10x30	55,0	20,0	5,350	VC08/100-VA
125	140,0	110,0	70,0	25,0	30,0	14,0	20,0	7,0	10,0	30,0	50,0	M12x30	60,0	25,0	10,320	VC08/125-VA

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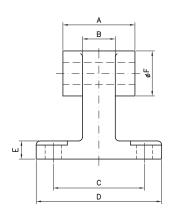
DIMENSIONS (mm), **WEIGHT** (kg)

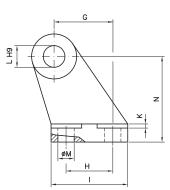


Right-angle Articulated Joint to ISO 15552

for Cylinder with Piston Diameter 32 to 125 mm Stainless steel AISI 304





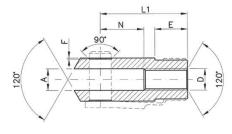


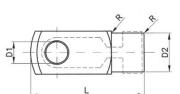
Ø (mm)	Α	В	С	D	E	ØF	G	Н	I	K	L	ØM	N	weight	catalogue number
32	26,0	10,0	38,0	51,0	8,0	20,0	21,0	18,0	31,0	1,6	10,0	6,6	32,0	0,160	VC11/032-VA
40	28,0	15,0	41,0	54,0	10,0	22,0	24,0	22,0	35,0	1,6	12,0	6,6	36,0	0,240	VC11/040-VA
50	32,0	16,0	50,0	65,0	12,0	26,0	33,0	30,0	45,0	1,6	12,0	9,0	45,0	0,420	VC11/050-VA
63	40,0	16,0	52,0	67,0	14,0	30,0	37,0	35,0	50,0	1,6	16,0	9,0	50,0	0,525	VC11/063-VA
80	50,0	20,0	66,0	86,0	14,0	30,0	47,0	40,0	60,0	2,5	16,0	11,0	63,0	1,055	VC11/080-VA
100	60,0	20,0	76,0	96,0	17,0	38,0	55,0	50,0	70,0	2,5	20,0	11,0	71,0	1,360	VC11/100-VA
125	70,0	30,0	94,0	124,0	20,0	45,0	70,0	60,0	90,0	3,2	25,0	14,0	90,0	2,500	VC11/125-VA

Rod Clevis

for Cylinder with Piston Diameter 32 to 125 mm Stainless steel AISI 303







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Ø (mm)	Α	В	D	D1	D2	E	F	L	L1	N	R	weight	catalogue number
32	10,0	20,0	M10x1,25	10,0	18,0	15,0	0,5	52,0	40,0	20,0	0,5	0,090	SC4/032-VA
40	12,0	24,0	M12x1,25	12,0	20,0	18,0	0,5	62,0	48,0	24,0	0,5	0,150	SC4/040-VA
50/63	16,0	32,0	M16x1,5	16,0	26,0	24,0	1,0	83,0	64,0	32,0	1,0	0,340	SC4/050-VA
80/100	20,0	40,0	M20x1,5	20,0	34,0	30,0	1,0	105,0	80,0	40,0	1,0	0,690	SC4/080-VA
125	30,0	55,0	M27x2	30,0	48,0	38,0	1,0	148,0	110,0	54,0	1,0	1,820	SC4/125-VA

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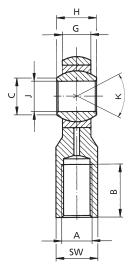


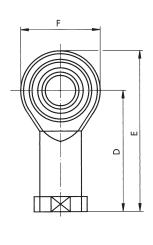
DIMENSIONS (mm), **WEIGHT** (kg) □



Oscillating Clevis

for Cylinders with Piston Diameters 32 to 125 mm Stainless steel AISI 304



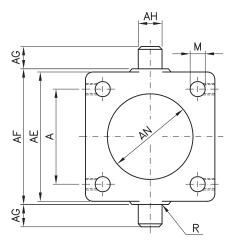


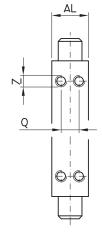


Ø (mm)	Α	В	C Ø	D	E	F	G	Н	J Ø H7	N	R	weight	catalogue number
32	M10x1,25	20,0	13,0	43,0	57,0	28,0	10,5	14,0	10,0	8°	17	0,075	SC5/025-VA
40	M12x1,25	22,0	15,5	50,0	66,0	32,0	12,0	16,0	12,0	8°	19	0,115	SC5/040-VA
50/63	M16x1,5	28,0	19,5	64,0	85,0	42,0	15,0	21,0	16,0	8°	22	0,230	SC5/050-VA
80/100	M20x1,5	33,0	24,5	77,0	102,0	50,0	18,0	25,0	20,0	8°	30	0,415	SC5/080-VA
125	M27x2	51,0	34,5	110,0	145,0	70,0	25,0	37,0	30,0	6°	41	1,130	SC5/125-VA

Pivot Variable

for Cylinder with Piston Diameter 32 to 125 mm Stainless steel AISI 304







Ø (mm)	Α	AE	AL	АН	AG	AF	AN	R	М	Q	Z	weight	catalogue number
32	32,5	46,0	15,0	12,0	12,0	50,0	37,0	1,0	6,25	7,0	M5	0,130	ZCV9/032-VA
40	38,0	59,0	20,0	16,0	16,0	63,0	46,0	1,5	6,25	8,0	M5	0,310	ZCV9/040-VA
50	46,5	69,0	20,0	16,0	16,0	75,0	56,0	1,6	8,25	8,0	M6	0,370	ZCV9/050-VA
63	56,5	84,0	25,0	20,0	20,0	90,0	69,0	1,6	8,25	12,0	M6	0,690	ZCV9/063-VA
80	72,0	102,0	25,0	20,0	20,0	110,0	87,0	1,6	10,25	12,0	M8	0,895	ZCV9/080-VA
100	89,0	125,0	30,0	25,0	25,0	132,0	107,0	2,0	12,25	15,0	M8	1,585	ZCV9/100-VA
125	110,0	155,0	32,0	25,0	25,0	160,0	133,0	2,0	12,25	15,0	M10	2,600	ZCV9/125-VA

All leaflets are available on: www.asco.com

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Force Table for Double Acting Cylinders

with Piston Diameters 32 to 200 mm

Ø	Piston Rod		Effective				Pre	essure (bar)			
	Diameter		Piston Surface	2	3	4	5	6	7	8	9	10
(mm)	(mm)		(cm²)					Thr	ust or T	ension	(N)	
32	12	for thrust	8,0	141	212	282	353	424	494	565	636	706
32	12	for tension	6,9	122	182	243	304	366	427	488	549	610
40	16	for thrust	12,6	223	334	445	555	667	780	893	1,001	1,109
		for tension	10,6	187	281	375	468	561	655	748	843	936
50	20	for thrust	19,6	346	520	692	865	1,040	1,207	1,383	1,560	1,727
		for tension	17,6	310	464	618	772	926	1,080	1,234	1,388	1,542
63	20	for thrust	31,2	551	827	1,099	1,373	1,648	1,933	2,207	2,482	2,757
03	20	for tension	28,1	495	746	991	1,236	1,491	1,736	1,982	2,237	2,482
80	25	for thrust	50,3	889	1,334	1,776	2,217	2,668	3,110	3,551	4,002	4,444
		for tension	45,3	800	1,197	1,599	2,001	2,403	2,806	3,198	3,600	4,002
100	25	for thrust	78,5	1,383	2,080	2,776	3,463	4,159	4,856	5,543	6,239	6,926
		for tension	73,6	1,295	1,952	2,600	3,247	3,895	4,552	5,199	5,847	6,494
125	32	for thrust	122,7	2,168	3,247	4,336	5,415	6,497	7,583	8,662	9,751	10,830
125	32	for tension	115,7	2,036	3,054	4,072	5,090	6,108	7,126	8,144	9,162	10,180
160	40	for thrust	201,1	3,551	5,327	7,102	8,878	10,654	12,429	14,205	15,980	17,756
100	40	for tension	188,5	3,326	4,993	6,651	8,319	9,987	11,644	13,312	14,970	16,638
200	40	for thrust	314,2	5,563	8,319	11,095	13,871	16,648	19,424	22,190	24,966	27,743
200	40	for tension	301,6	5,327	7,985	10,654	13,312	15,971	18,639	21,297	23,966	26,624
riction losses	are considered with	า 10%.										

Table on Air Consumption for Double Acting Cylinders

with Piston Diameters 32 to 200 mm

Ø				P	ressure (ba	ar)			
	2	3	4	5	6	7	8	9	10
(mm)			Air C	onsumption	n (I) per 100	mm Stroke	e (uncompre	essed air)	
32	0,3	0,4	0,6	0,7	0,9	0,9	1,2	1,3	1,5
40	0,5	0,7	0,9	1,2	1,4	1,6	1,8	2,1	2,3
50	0,7	1,1	1,4	1,8	2,2	2,5	2,9	3,3	3,6
63	1,2	1,8	2,4	3,0	3,6	4,1	4,7	5,3	5,9
80	1,9	2,9	3,8	4,8	5,7	6,7	7,6	8,6	9,6
100	3,0	4,6	6,1	7,6	9,1	10,7	12,2	13,7	15,2
125	4,7	7,1	9,5	11,9	14,2	16,6	19,0	21,4	23,7
160	7,8	11,7	15,6	19,5	23,4	27,3	31,2	35,1	39,0
200	12,3	18,5	24,6	30,8	37,0	43,1	49,3	55,4	61,6

Break-away Pressures for Double Acting Cylinders

with Piston Diameters 32 to 100 mm

Ø	Type WG	Type ZG
(mm)	(ba	ar)
32	0,15-0,30 (0,70)	0,15-0,30 (0,80)
40	0,10-0,20 (0,60)	0,15-0,30 (0,70)
50	0,10-0,20 (0,60)	0,15-0,30 (0,60)
63	0,10-0,20 (0,40)	0,10-0,25 (0,50)
80	0,10-0,20 (0,40)	0,10-0,25 (0,50)
100	0,10-0,20 (0,40)	0,10-0,25 (0,50)

On request: break-away pressures Ø 125 mm to Ø 320 mm

The values in brackets refer to a cylinder which has remained in its final position for a longer period of time (several hours or days). Due to long rest periods the material elastomer can "flow" into the rough walls of the cylinder barrel and it can "interlock". For cylinders that are regularly in motion the first values without brackets are valid, as the "sticking effect" occurs only after a longer rest period.

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