

The background features a close-up of industrial machinery, likely a hydraulic cylinder, with a complex network of metal beams and bolts. The image is overlaid with large, diagonal geometric shapes in dark blue and red, creating a modern, technical aesthetic.

PRES-KOL

HYDRAULIC CYLINDERS
PRODUCTION PROGRAMME

PRES-KOL

PRES-KOL manufactures hydraulic cylinders with diameters in the range of $\varnothing 40\text{H8} \div \varnothing 280\text{H8}$ [larger diameters on request].

The maximum stroke of the offered cylinders is 5,000 mm. The piston rods are chromium-plated (Cr).

Standard pressures $p=25\text{MPa}$. At the customer's request, it is possible to manufacture cylinders for higher pressures.

CYLINDER TYPES:

- CJ - single rod hydraulic cylinder, double-acting;
- CD - double rod hydraulic cylinder, double-acting;
- CJ - single rod hydraulic cylinder, single-acting;

MOUNTING TYPES:

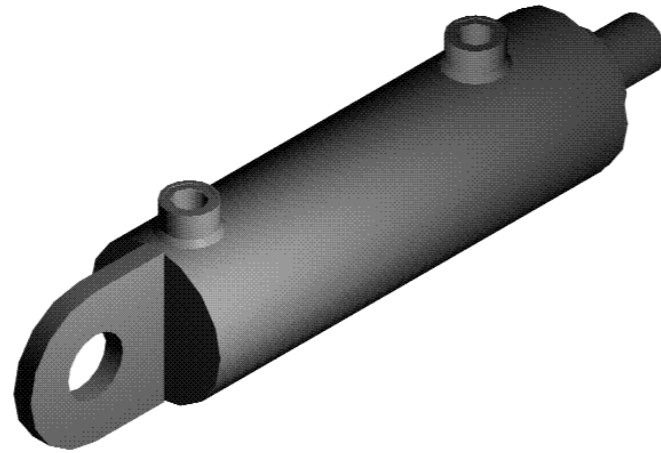
- on a sliding ring;
- on a spherical plain bearing;
- on a flange on the piston rod side;
- on a flange on the bottom side;
- on feet;
- on pins.

WE ALSO MANUFACTURE HYDRAULIC CYLINDERS FOR SPECIAL CUSTOMER REQUIREMENTS

HYDRAULIC CYLINDER CJ1

Single rod, double-acting hydraulic cylinder, in which a tight closing of the working chamber takes over the piston, and through a rigidly connected piston rod - additionally guided in a gland - converts the pressure energy, accumulated in the liquid working medium supplied to the motor, into mechanical energy of the forward-return movement of the piston along the way known as the stroke.

The working movement of the piston is forced by the pressure of the supplied liquid on the piston side. The return movement (no-load movement) is forced by the pressure of the supplied liquid on the rod side.



APPLICATION

- presses;
- agricultural machines;
- mobile machines;
- cover closing.

PRIMARY MATERIALS

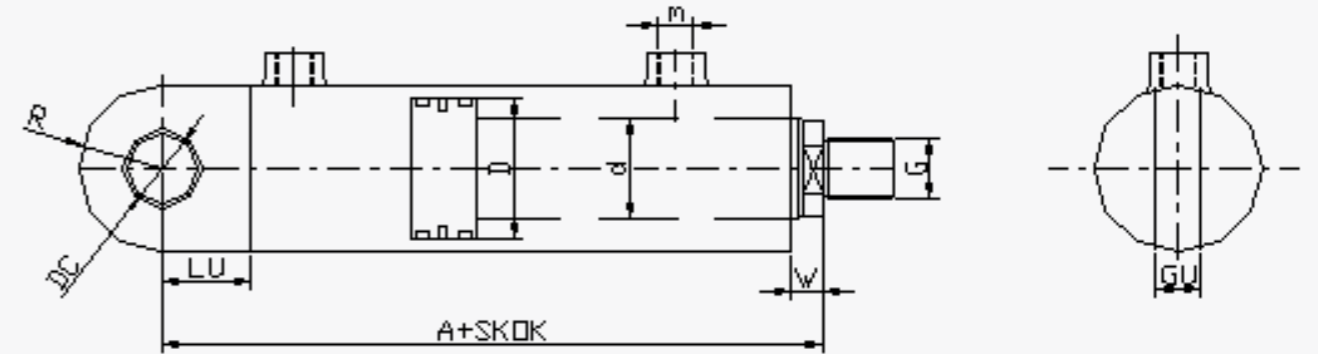
- piston rod - steel Ck45 or 20MnV6 - with Cr coating
- cylinder - steel St52

TECHNICAL SPECIFICATIONS

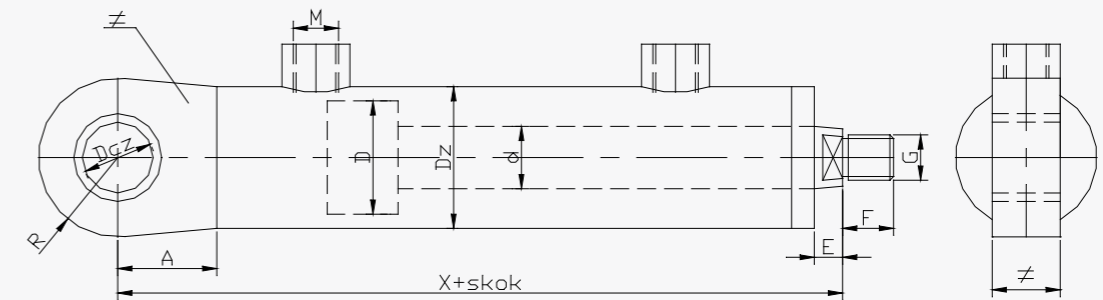
Name	Symbol	Unit	Value
Nominal pressure	p_n	MPa	25
Test pressure	p_r	MPa	30
Max. operating temperature	t	$^{\circ}\text{C}$	120
Efficiency	η	%	≥ 95

Orders can be placed directly with the Manufacturer, stating the required parameters. Ordering method is described at the end of the catalogue.

DIMENSIONS



D	d	A	LU	DC	W	G	R	M	GU
40	22	158	35	25	12	M 16 x 1.5	30	M 14 x 1.5	16
40	28	158	35	25	12	M 22 x 1.5	30	M 14 x 1.5	16
50	28	166	40	30	15	M 22 x 1.5	32	M 16 x 1.5	18
50	36	166	40	30	15	M 27 x 2	32	M 16 x 1.5	18
63	36	186	45	35	18	M 27 x 2	40	M 16 x 1.5	20
63	45	186	45	35	18	M 33 x 2	40	M 16 x 1.5	20
80	45	265	50	40	20	M 33 x 2	50	M 16 x 1.5	22
80	56	265	50	40	20	M 42 x 2	50	M 16 x 1.5	22
100	56	301	60	50	20	M 42 x 2	58	M 22 x 1.5	28
100	70	301	60	50	20	M 48 x 2	58	M 22 x 1.5	28
125	80	344	70	60	25	M 56 x 2	73	M 22 x 1.5	36
125	90	344	70	60	25	M 64 x 2	73	M 22 x 1.5	36
140	80	362	80	70	28	M 56 x 2	83	M 22 x 1.5	40
140	100	362	80	70	28	M 68 x 2	83	M 22 x 1.5	40
160	100	409	100	80	30	M 68 x 2	93	M 27 x 2	45



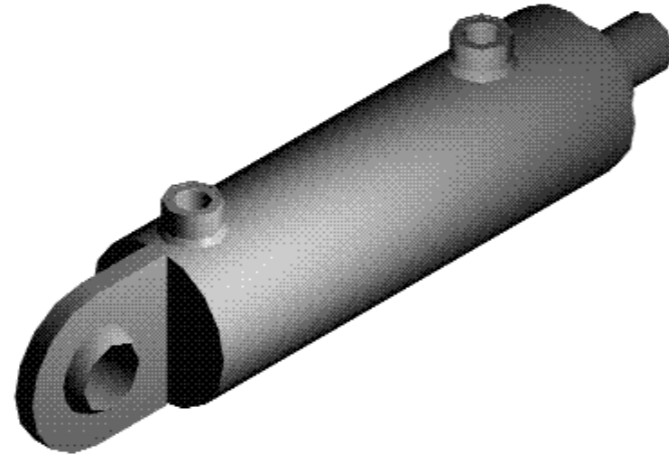
CYLINDER	D	d	Dcz	X	Dz	A	R	M	E	G	F	≠
CJ1-40/22	40	22	25	156	50	35	28	G $\frac{1}{4}$ " \div G $\frac{3}{8}$ "	10	M16x1,5	18	24
CJ1-50/28	50	28	30	166	60	40	33	G $\frac{1}{4}$ " \div G $\frac{3}{8}$ "	15	M22x1,2	20	24
CJ1-63/36	63	36	35	171	75	45	42	G $\frac{3}{8}$ "	15	M27x2	22	32
CJ1-80/45	80	45	40	259	95	50	50	G $\frac{1}{2}$ "	15	M33x2	30	32
CJ1-100/56	100	56	50	280	115	60	62	G $\frac{1}{2}$ "	20	M42x2	36	40
CJ1-125/70	125	70	60	310	145	70	72	G $\frac{1}{2}$ " \div G $\frac{3}{4}$ "	20	M48x2	45	50
CJ1-140/80	140	80	70	350	160	80	82	G $\frac{1}{2}$ " \div G $\frac{3}{4}$ "	20	M56x2	50	60
CJ1-160/90	160	90	80	395	185	90	90	G $\frac{1}{2}$ " \div G $\frac{3}{4}$ "	25	M64x2	56	65

HYDRAULIC CYLINDER

CJ2

Single rod, double-acting hydraulic cylinder, in which a tight closing of the working chamber takes over the piston, and through a rigidly connected piston rod - additionally guided in a gland - converts the pressure energy, accumulated in the liquid working medium supplied to the motor, into mechanical energy of the forward-return movement of the piston along the way known as the stroke.

The working movement of the piston is forced by the pressure of the supplied liquid on the piston side. The return movement (no-load movement) is forced by the pressure of the supplied liquid on the rod side.



APPLICATION

- presses;
- agricultural machines;
- mobile machines;
- ship cranes (with PRS approval);
- cover closing.

PRIMARY MATERIALS

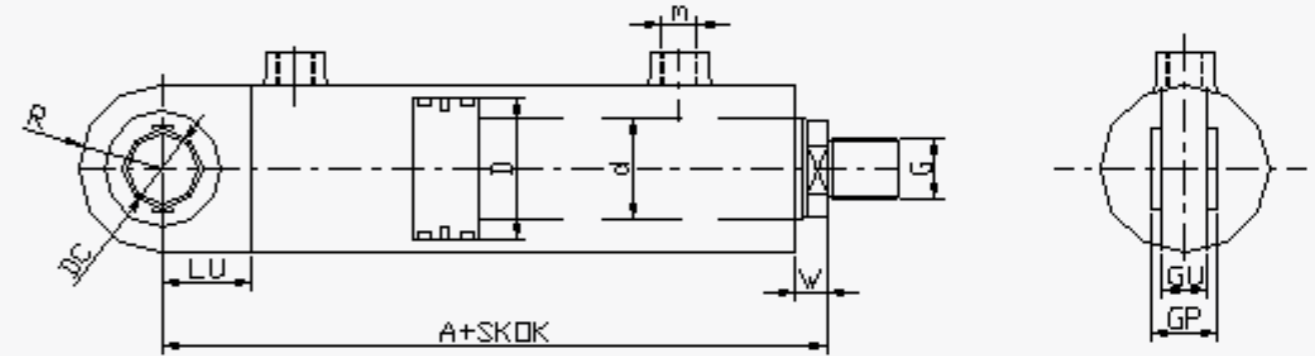
- piston rod - steel Ck45 or 20MnV6 - with Cr coating
- cylinder - steel St52

TECHNICAL SPECIFICATIONS

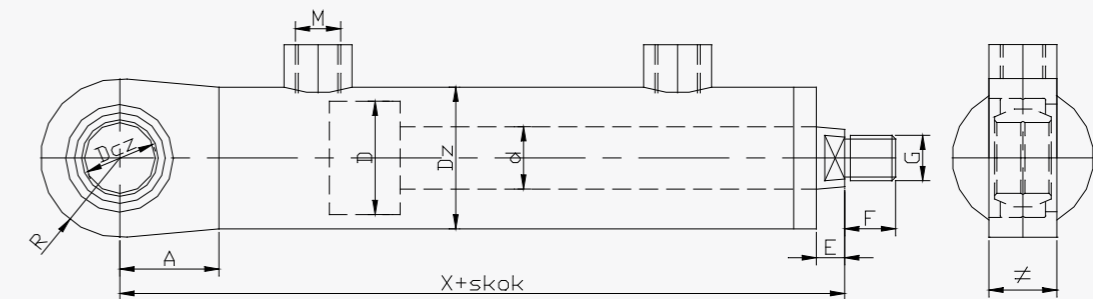
Name	Symbol	Unit	Value
Nominal pressure	p_n	MPa	25
Test pressure	p_r	MPa	30
Max. operating temperature	t	$^{\circ}\text{C}$	120
Efficiency	η	%	≥ 95

Orders can be placed directly with the Manufacturer, stating the required parameters. Ordering method is described at the end of the catalogue.

DIMENSIONS



D	d	A	LU	DC	W	G	R	M	GP	GU
40	22	158	35	25	12	M 16 x 1.5	30	M 14 x 1.5	20	16
40	28	158	35	25	12	M 22 x 1.5	30	M 14 x 1.5	20	16
50	28	166	40	30	15	M 22 x 1.5	32	M 16 x 1.5	22	18
50	36	166	40	30	15	M 27 x 2	32	M 16 x 1.5	22	18
63	36	186	45	35	18	M 27 x 2	40	M 16 x 1.5	25	20
63	45	186	45	35	18	M 33 x 2	40	M 16 x 1.5	25	20
80	45	265	50	40	20	M 33 x 2	50	M 16 x 1.5	28	22
80	56	265	50	40	20	M 42 x 2	50	M 16 x 1.5	28	22
100	56	301	60	50	20	M 42 x 2	58	M 22 x 1.5	35	28
100	70	301	60	50	20	M 48 x 2	58	M 22 x 1.5	35	28
125	80	344	70	60	25	M 56 x 2	73	M 22 x 1.5	44	36
125	90	344	70	60	25	M 64 x 2	73	M 22 x 1.5	44	36
140	80	362	80	70	28	M 56 x 2	83	M 22 x 1.5	49	40
140	100	362	80	70	28	M 68 x 2	83	M 22 x 1.5	49	40
160	100	409	100	80	30	M 68 x 2	93	M 27 x 2	55	45

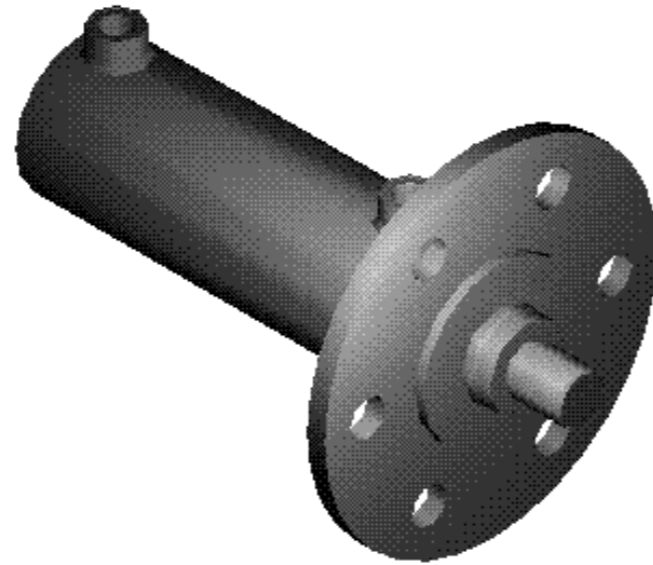


CYLINDER	D	d	Dcz	X	Dz	A	R	M	E	G	F	≠
CJ2-40/22	40	22	25	156	50	35	28	G $\frac{1}{4}$ "÷G $\frac{3}{8}$ "	10	M16x1,5	18	24
CJ2-50/28	50	28	30	166	60	40	33	G $\frac{1}{4}$ "÷G $\frac{3}{8}$ "	15	M22x1,2	20	24
CJ2-63/36	63	36	35	171	75	45	42	G $\frac{3}{8}$ "	15	M27x2	22	32
CJ2-80/45	80	45	40	259	95	50	50	G $\frac{1}{2}$ "	15	M33x2	30	32
CJ2-100/56	100	56	50	280	115	60	62	G $\frac{1}{2}$ "	20	M42x2	36	40
CJ2-125/70	125	70	60	310	145	70	72	G $\frac{1}{2}$ "÷G $\frac{3}{4}$ "	20	M48x2	45	50
CJ2-140/80	140	80	70	350	160	80	82	G $\frac{1}{2}$ "÷G $\frac{3}{4}$ "	20	M56x2	50	60
CJ2-160/90	160	90	80	395	185	90	90	G $\frac{1}{2}$ "÷G $\frac{3}{4}$ "	25	M64x2	56	65

HYDRAULIC CYLINDER CJ5

Single rod, double-acting hydraulic cylinder, in which a tight closing of the working chamber takes over the piston, and through a rigidly connected piston rod - additionally guided in a gland - converts the pressure energy, accumulated in the liquid working medium supplied to the motor, into mechanical energy of the forward-return movement of the piston along the way known as the stroke.

The working movement of the piston is forced by the pressure of the supplied liquid on the piston side. The return movement (no-load movement) is forced by the pressure of the supplied liquid on the rod side.



APPLICATION

- presses;
- agricultural machines;
- mobile machines;
- cover closing;
- other.

PRIMARY MATERIALS

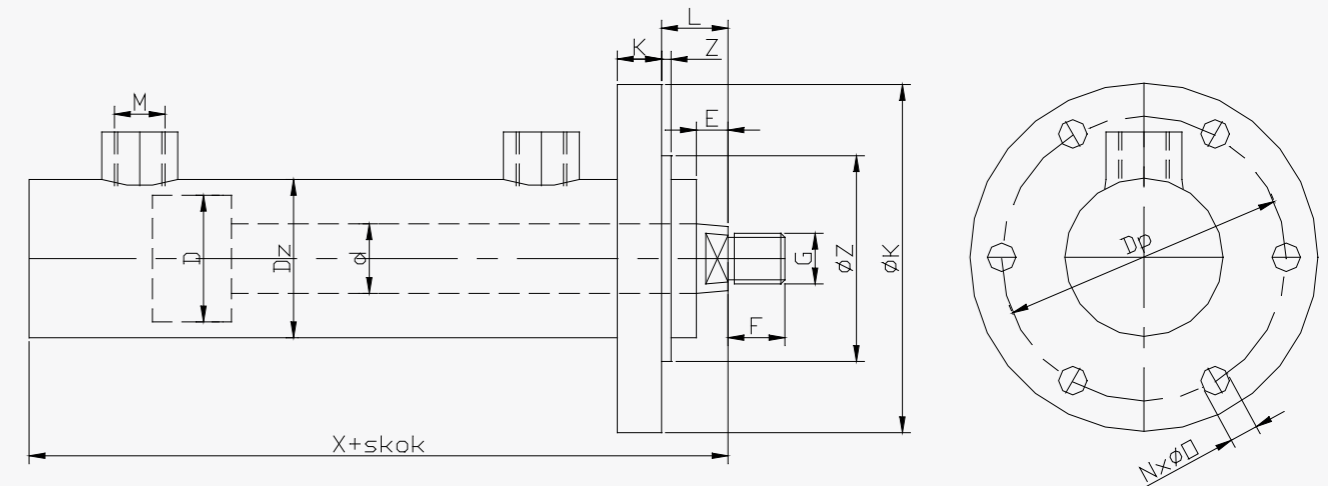
- piston rod - steel Ck45 or 20MnV6 - with Cr coating
- cylinder - steel St52

TECHNICAL SPECIFICATIONS

Name	Symbol	Unit	Value
Nominal pressure	p_n	MPa	25
Test pressure	p_r	MPa	30
Max. operating temperature	t	$^{\circ}\text{C}$	120
Efficiency	η	%	≥ 95

Orders can be placed directly with the Manufacturer, stating the required parameters. Ordering method is described at the end of the catalogue.

DIMENSIONS



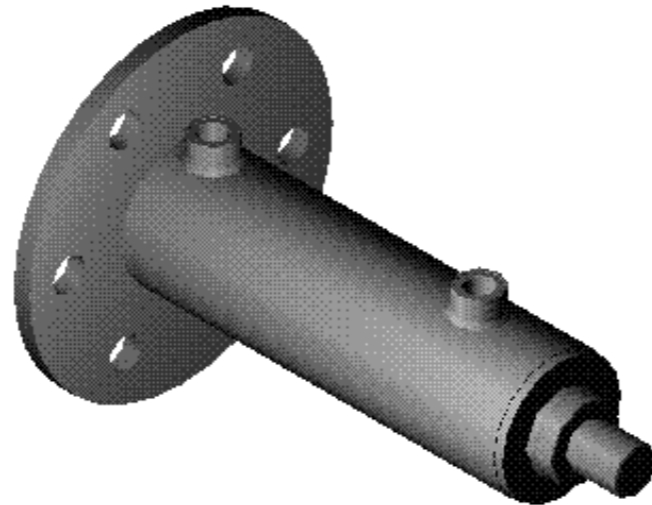
CYLINDER	D	d	X	Dz	M	E	G	F	øK	øZ	Dp	K	Z	øO	N
CJ5-40/22	40	22	121	50	G $\frac{1}{4}$ "÷G $\frac{3}{8}$ "	10	M16×1,5	18	110	65	90	14	3	9	6
CJ5-50/28	50	28	126	60	G $\frac{1}{4}$ "÷G $\frac{3}{8}$ "	15	M22×1,2	20	130	85	106	16	3	11	6
CJ5-63/36	63	36	126	75	G $\frac{3}{8}$ "	15	M27×2	22	160	100	130	18	3	13	6
CJ5-80/45	80	45	209	95	G $\frac{1}{2}$ "	15	M33×2	30	210	135	175	19	3	17	6
CJ5-100/56	100	56	220	115	G $\frac{1}{2}$ "	20	M42×2	36	240	150	200	25	5	21	6
CJ5-125/70	125	70	240	145	G $\frac{1}{2}$ "÷G $\frac{3}{4}$ "	20	M48×2	45	280	180	230	30	5	21	6
CJ5-140/80	140	80	270	160	G $\frac{1}{2}$ "÷G $\frac{3}{4}$ "	20	M56×2	50	290	185	240	30	5	25	6
CJ5-160/90	160	90	305	185	G $\frac{1}{2}$ "÷G $\frac{3}{4}$ "	25	M64×2	56	340	240	280	35	5	25	6

Orders can be placed directly with the Manufacturer, stating the required parameters. Ordering method is described at the end of the catalogue.

HYDRAULIC CYLINDER CJ6

Single rod, double-acting hydraulic cylinder, in which a tight closing of the working chamber takes over the piston, and through a rigidly connected piston rod - additionally guided in a gland - converts the pressure energy, accumulated in the liquid working medium supplied to the motor, into mechanical energy of the forward-return movement of the piston along the way known as the stroke.

The working movement of the piston is forced by the pressure of the supplied liquid on the piston side. The return movement (no-load movement) is forced by the pressure of the supplied liquid on the rod side.



APPLICATION

- presses;
- agricultural machines;
- mobile machines;
- cover closing;
- other.

PRIMARY MATERIALS

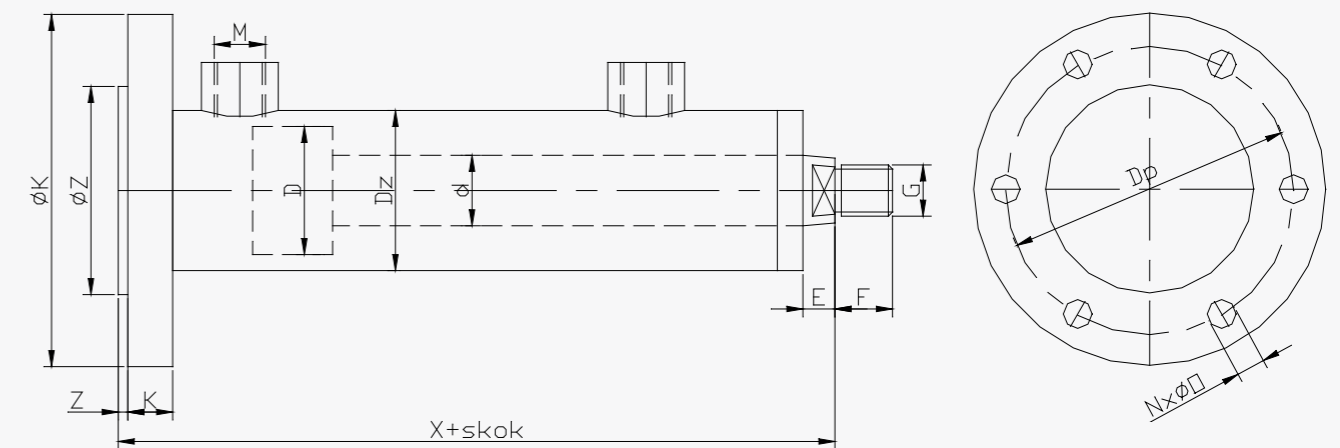
- piston rod - steel Ck45 or 20MnV6 - with Cr coating
- cylinder - steel St52

TECHNICAL SPECIFICATIONS

Name	Symbol	Unit	Value
Nominal pressure	p_n	MPa	25
Test pressure	p_r	MPa	30
Max. operating temperature	t	$^{\circ}\text{C}$	120
Efficiency	η	%	≥ 95

Orders can be placed directly with the Manufacturer, stating the required parameters. Ordering method is described at the end of the catalogue.

DIMENSIONS



CYLINDER	D	d	X	Dz	M	E	G	F	øK	øZ	Dp	K	Z	ØO	N
CJ6-40/22	40	22	124	50	G $\frac{1}{4}$ "÷G $\frac{3}{8}$ "	10	M16×1,5	18	110	65	90	14	3	9	6
CJ6-50/28	50	28	131	60	G $\frac{1}{4}$ "÷G $\frac{3}{8}$ "	15	M22×1,2	20	130	85	106	16	3	11	6
CJ6-63/36	63	36	133	75	G $\frac{3}{8}$ "	15	M27×2	22	160	100	130	18	3	13	6
CJ6-80/45	80	45	217	95	G $\frac{1}{2}$ "	15	M33×2	30	210	135	175	19	3	17	6
CJ6-100/56	100	56	230	115	G $\frac{1}{2}$ "	20	M42×2	36	240	150	200	25	5	21	6
CJ6-125/70	125	70	255	145	G $\frac{1}{2}$ "÷G $\frac{3}{4}$ "	20	M48×2	45	280	180	230	30	5	21	6
CJ6-140/80	140	80	275	160	G $\frac{1}{2}$ "÷G $\frac{3}{4}$ "	20	M56×2	50	290	185	240	30	5	25	6
CJ6-160/90	160	90	305	185	G $\frac{1}{2}$ "÷G $\frac{3}{4}$ "	25	M64×2	56	340	240	280	35	5	25	6

HYDRAULIC CYLINDER CJ7

APPLICATION

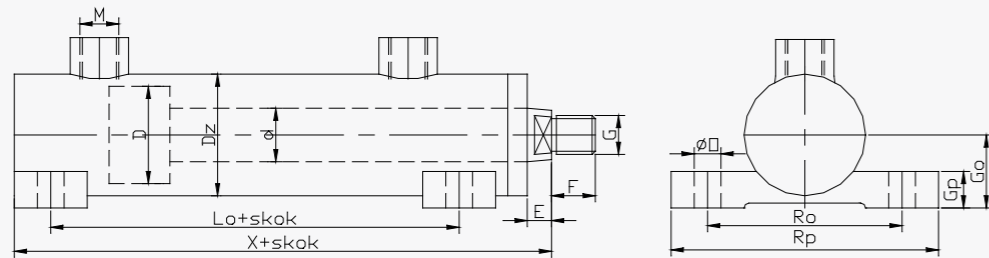
- presses;
- agricultural machines;
- mobile machines;
- cover closing.

PRIMARY MATERIALS

- piston rod - steel Ck45 or 20MnV6 - with Cr coating
- cylinder - steel St52

TECHNICAL SPECIFICATIONS

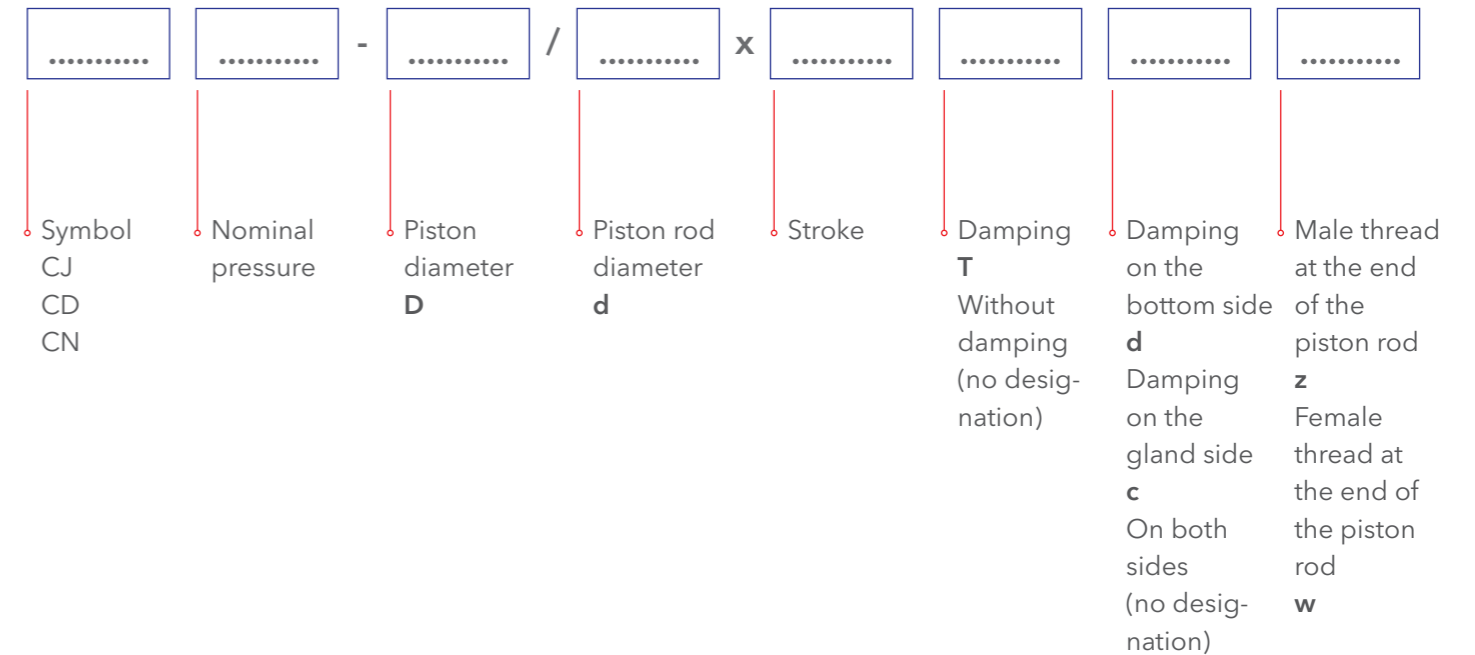
Name	Symbol	Unit	Value
Nominal pressure	p_n	MPa	25
Test pressure	p_r	MPa	30
Max. operating temperature	t	$^{\circ}\text{C}$	120
Efficiency	η	%	≥ 95



CYLINDER	D	d	X	Dz	M	E	G	F	Go	Gp	ØO
CJ7-40/22	40	22	121	50	G $\frac{1}{4}$ "÷G $\frac{3}{8}$ "	10	M16×1,5	18	31	15	11
CJ7-50/28	50	28	126	60	G $\frac{1}{4}$ "÷G $\frac{3}{8}$ "	15	M22×1,2	20	38	18	13
CJ7-63/36	63	36	126	75	G $\frac{3}{8}$ "	15	M27×2	22	44	25	21
CJ7-80/45	80	45	209	95	G $\frac{1}{2}$ "	15	M33×2	30	57	30	21
CJ7-100/56	100	56	220	115	G $\frac{1}{2}$ "	20	M42×2	36	68	35	25
CJ7-125/70	125	70	240	145	G $\frac{1}{2}$ "÷G $\frac{3}{4}$ "	20	M48×2	45	85	35	25
CJ7-140/80	140	80	270	160	G $\frac{1}{2}$ "÷G $\frac{3}{4}$ "	20	M56×2	50	95	35	31
CJ7-160/90	160	90	305	185	G $\frac{1}{2}$ "÷G $\frac{3}{4}$ "	25	M64×2	56	108	40	37

Orders can be placed directly with the Manufacturer, stating the required parameters.
Ordering method is described at the end of the catalogue.

ORDERING METHOD



- 1 - on a sliding ring
- 2 - on a spherical plain bearing
- 3 - on pins
- 5 - on a flange on the piston rod side
- 6 - on a flange on the bottom side
- 7 - on feet
- 8 - on a fork

Example designation for a single rod double-acting hydraulic cylinder with mounting on spherical plain bearing, piston diameter D=50mm, piston rod diameter d=28mm, stroke h=500mm, pressure p=25MPa, with male thread at the end of the piston rod, and with damping on the bottom side.

CJ2 250 - 50 / 28 × 500 z Td

CONTACT

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