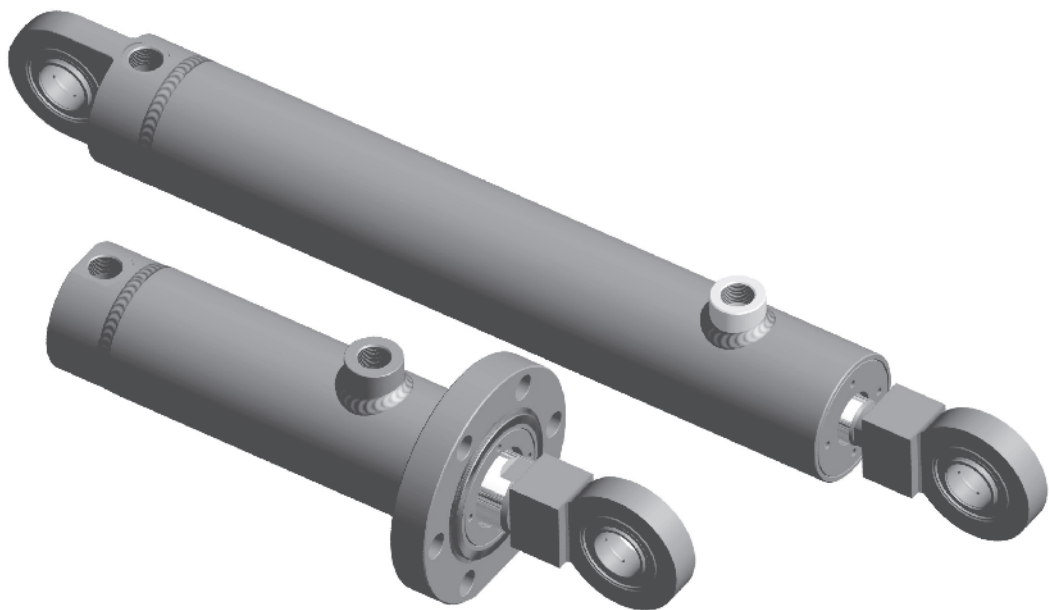


HYDRAULIC CYLINDERS

HYDROMEGA®



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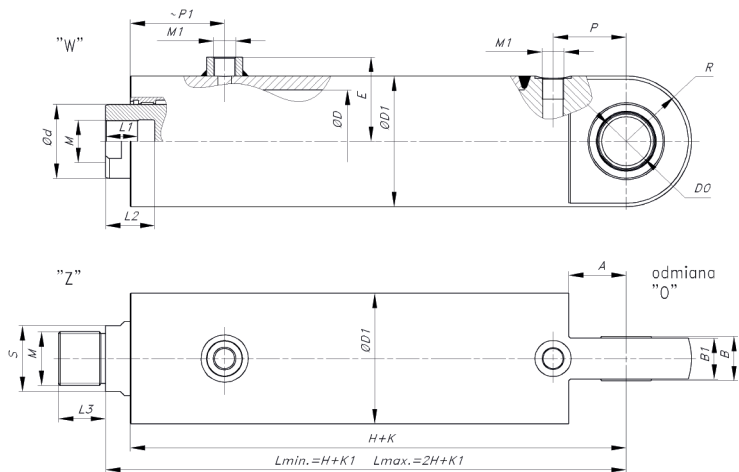
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1. Destiny of the cylinder

CJ2N hydraulic cylinders are designed to operate in hydraulic systems onboard ships and on land in automated working devices. Hydraulic cylinders CJ2N is piston type, double-acting, self-aligning mounting with one side piston rod cylinder. Hydraulic cylinders CJ2N is modernized structure of hydraulic cylinders CJ2 and are with them fully interchangeable in size. CJ2 hydraulic cylinders can be supplied as a spare part on special order.



2. Technical characteristics

2. 1	Nominal pressure	$P_{nom} = 25 \text{ MPa}$
2. 2	Range of ambient temperatures	$T = -25^{\circ}\text{C} \div +80^{\circ}\text{C}$
2. 3	Hydraulic fluids	Hydraulic oils L-HL acc. to PN-C-96057-04:1991 and HL and. to DIN 51524 teil 1 and HL acc. to ISO 6743/4
2. 4	Viscosity range	$(2,8 \div 380) \times 10^{-6} \text{ m}^2/\text{s}$
2. 5	Fluid cleanliness	$\leq 25 \mu\text{m}$
2. 6	Range of piston diameters	$D = 40, 50, 63, 80, 100, 125, 140, 160, 180, 200, 220, 250, 280 \text{ mm}$
2. 7	Maximal velocity of piston rod	0,5 m/s dependent on supply port sizes

D [mm]	d [mm]	Dimensions											
		H _{max} ¹⁾ [mm]	A [mm]	B ⁴⁾ [mm]	B1 [mm]	D1 [mm]	D0 ⁴⁾ [mm]	E [mm]	L1 [mm]	L2 [mm]	L3 [mm]	K [mm]	K1 [mm]
40	22	200	25	18	14	56	22	45	40	45	18	206	225
	28	360							20	40		232	250
50	28	280	28	20	16	63,5	25	51,5	42	47	20	234	255
	36	500							22	42		256	274
63	36	360	36	25	20	82,5	35	61	25	45	22	247	270
	45	630										272	294
80	45	450	45	28	25	101,6	40	74	30	50	28	282	305
	56	800										286	310
100	56	560	56	35	32	127	50	86,5	35	55	36	311	340
	70	1000										315	345
125	70	710	70	44	40	159	60	102,5	40	60	38	337	365
	90	1250										353	383
140	80	800	80	49	45	168,3	70	107	50	70	45	363	401
	100	1400										382	427
160	90	1000	90	55	50	193,7	80	120	55	75	52	396	430
	110	1400										413	446
180	100	1000	100	60	56	219,1	90	108 ²⁾	65	85	60	433	466
	125	1600										449	482
200	110	1120	110	70	63	244,5	100	120 ²⁾	70	90	63	481	520
	140	1800										497	542
220	125	1250	125	70	70	273	110	135 ²⁾	75	95	70	541	605
	160	1800										557	595
250	140	1400	140	85	80	298,5	120	145 ²⁾	85	105	82	583	625
	180	1800										589	630
280	160	1600	155	90	95	355,6	140	171 ²⁾	110	130	105	668	715

D [mm]	d [mm]	Dimensions						Mass		Forces	
		M [mm]	M1 ³⁾ [mm]	P [mm]	P1 [mm]	S [mm]	R [mm]	Δ _m [kg/mm]	m [kg]	F _{n1} [kN]	F _{n2} [kN]
40	22	M16x1,5	M16x1,5	39	81	19	28	0,0125	3,19	31,41	21,91
	28				108	24		0,0143	3,24		16,02
50	28	M22x1,5	M20x1,5	45	91	25	32	0,0143	4,62	49,08	33,69
	36				113	32		0,0174	4,69		23,63
63	36	M27x2	M22x1,5	51	97		41	41	0,0255	8,68	77,92
	45				122	0,0300			8,77	38,16	
80	45	M33x2	M27x2	63,5	105	50	51	0,0367	16,26	125,66	85,90
	56				109			0,0435	16,41		64,08
100	56	M42x2		76	111	60	63,5	0,0571	26,46	196,34	134,77
	70				115			0,0680	26,70		100,13
125	70	M52x2		89	110	80	79,5	0,0897	46,96	306,78	210,57
	90				125			0,1095	47,49		147,74
140	80	M60x2		100	117	70	84	0,0933	51,72	384,33	259,17
	100				135	90		0,1154	52,41		188,49
160	90	M68x2		109	131	80	97	0,1234	77,78	502,64	343,60
	110				148	100		0,1481	78,54		265,06
180	100	M72x3		122	143	90	109	0,1461	106,62	636,15	439,81
	125				159	115		0,1925	107,70		329,36
200	110	M80x3		132	160	100	122	0,1966	148,19	785,37	547,80
	140				176	125		0,2428	149,62		400,54
220	125	M90x3	M33x2	150	185	110	136	0,2574	213,70	950,30	643,52
	160				201	145		0,3189	215,61		447,66
250	140	M100x3		165	199	125	150	0,2849	265,07	1227,1	842,31
	180				205	165		0,3638	267,51		590,90
280	160	M110x3		188	205	145	178	0,4541	393,91	1538,6	1036,20

Calculation of total mass $M = m + \Delta m \cdot H$ (H- according to the order in the range $H_{min} \div H_{max}$)

F_{n1} - nominal useful pushing force, F_{n2} - nominal useful pulling force

¹⁾ Permissible stroke in range nominal pressure ($P_{nom} = 25$ [MPa])

²⁾ Supply socket build in directly in the cylinder pipe (lack of spout) - we offer only supply socket form X acc. DIN3852

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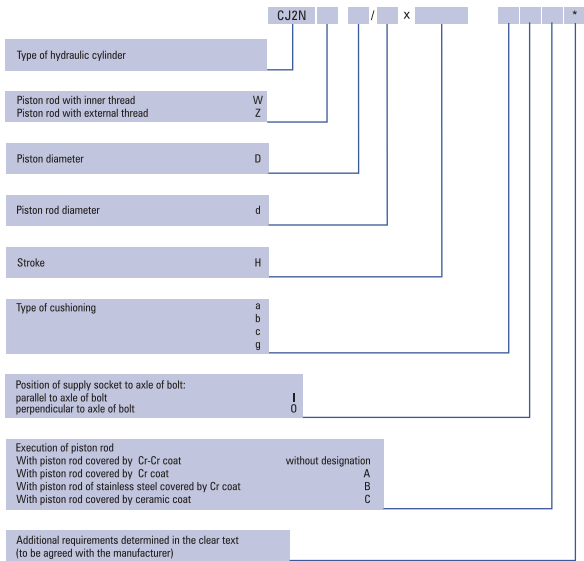
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3. Execution

- 3.1. Hydraulic cylinder CJ2N is executed in four types of cushioning:
- one side cushioning not adjustable from the side without piston rod (designation “a”)
 - one side cushioning not adjustable from piston rod side (designation “b”)
 - two side cushioning not adjustable (designation “c”)
 - without cushioning (designation “g”)
- 3.2. Piston rod of hydraulic cylinder is executed:
- structural steel rod covered by a double hard chromium coat
/Cr - Cr /Cr = 0,04 mm + Cr = 0,04 mm = 0,08 mm/ (without designation),
 - structural steel rod covered by a single hard chromium coat / Cr = 0,04 mm / (designation A)
 - stainless steel rod covered by a single hard chromium coat / Cr = 0,04 mm / (designation B)
 - structural steel rod covered by ceramic coat (designation C)

4. Designation structure of hydraulic cylinder CJ2N:



5. Ordering example

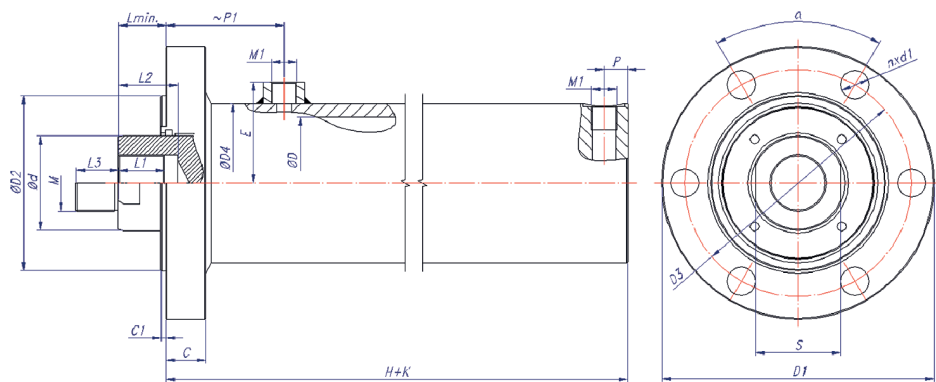
In an order of hydraulic cylinder there should be given: the name: Hydraulic Cylinder, the denomination acc. to 4, no. of catalogue card HM/54-21722/08.11

The example: HYDRAULIC CYLINDER CJ2Nw140/100 X 1400-g I A acc. to HM/54-21722/08.11

The hydraulic cylinder CJ2N double action type and alignment mounting with one side piston rod and inner thread “w” in it, piston diameter D=140 [mm], piston rod diameter d=100 [mm], stroke H=1400 [mm], without cushioning “g”, with location of holes “I”, with piston rod covered by chromium coat “Cr”.

1. Destiny of the cylinder

CJ5N hydraulic cylinders are designed to operate in hydraulic systems onboard ships and on land in automated working devices. Hydraulic cylinders CJ5N is piston type, double-acting, flange mounting cylinder with one side piston rod cylinder. Hydraulic cylinders CJ5N is modernized structure of hydraulic cylinders CJ5 and are with them fully interchangeable in size. CJ5 hydraulic cylinders can be supplied as a spare part on special order.



2. Technical characteristics

2. 1	Nominal pressure	$P_{nom} = 25 \text{ MPa}$
2. 2	Range of ambient temperatures	$T = -25^{\circ}\text{C} \div +80^{\circ}\text{C}$
2. 3	Hydraulic fluids	Hydraulic oils L-HL acc. to PN-C-96057-04:1991 and HL and. to DIN 51524 teil 1 and HL acc. to ISO 6743/4
2. 4	Viscosity range	$(2,8 \div 380) \times 10^{-6} \text{ m}^2/\text{s}$
2. 5	Fluid cleanliness	$\leq 25 \mu\text{m}$
2. 6	Range of piston diameters	$D = 40, 50, 63, 80, 100, 125, 140, 160, 180, 200, 220, 250, 280 \text{ mm}$
2. 7	Maximal velocity of piston rod	0,5 m/s dependent on supply port sizes

D [mm]	d [mm]	Dimensions												
		H _{max} ⁽¹⁾ [mm]	C [mm]	C1 [mm]	D1 [mm]	D2 (H8) [mm]	D3 [mm]	D4 [mm]	E [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L _{min} [mm]	K [mm]
40	22	200	18	4	115	62	90	56	45	40	45	18	23	179
	28	360								20	40		22	205
50	28	280	22		128	74	105	63,5	51,5	42	47	20	25	205
	36	500								22	42		22	227
63	36	360	26		158	94	130	82,5	61	25	45	22	27	210
	45	630											26	235
80	45	450	30		188	115	155	101,6	74	30	50	28	27	236
	56	800											28	240
100	56	560	34		223	142	190	127	86,5	35	55	36	33	255
	70	1000											34	259
125	70	710	38	5	262	165	220	159	102,5	40	60	38	33	264
	90	1250											35	280
140	80	800	42		288	185	240	168,3	107	50	70	45	43	283
	100	1400											50	302
160	90	1000	46		328	210	275	193,7	120	55	75	52	39	303
	110	1400											38	320
180	100	1000	50		348	230	295	219,1	108 ²⁾	65	85	60	38	331
	125	1600											38	347
200	110	1120	54		388	255	330	244,5	120 ²⁾	70	90	63	44	370
	140	1800											50	386
220	125	1250	60		430	290	366	273	135 ²⁾	75	95	70	69	415
	160	1800											43	431
250	140	1400	70		480	324	410	298,5	145 ²⁾	85	105	82	47	445
	180	1800											46	451
280	160	1600	82	6	560	390	485	355,6	171 ²⁾	110	130	105	53	507

D [mm]	d [mm]	Dimensions								Mass		Forces			
		M [mm]	M1 ²⁾ [mm]	p [mm]	P1 [mm]	S [mm]	d1 [mm]	n [ilość]	α [°]	Δ _m [kg/mm]	m [kg]	F _{n1} [kN]	F _{n2} [kN]		
40	22	M16x1,5	M16x1,5	16	77	19	11	4	90	0,0125	3,88	31,41	21,91		
	28				104	24				0,0143	3,92		16,02		
50	28	M22x1,5	M20x1,5	20	87	25	14			0,0143	5,47	49,08	33,69		
	36				109	32				0,0174	5,53		23,63		
63	36	M27x2	M22x1,5	18	93	41	18			0,0255	8,01	77,92	52,48		
	45				118					0,0300	8,10		38,16		
80	45	M33x2	M27x2	22	101	50	20	6	60	0,0367	15,50	125,66	85,90		
	56				105					0,0435	15,65		64,08		
100	56	M42x2		24	107	60	22			0,0571	24,96	196,34	134,77		
	70				111					0,0680	25,29		100,13		
125	70	M52x2		21	105	80	26			0,0897	49,99	306,78	210,57		
	90				120					0,1095	50,52		147,74		
140	80	M60x2		25	112	90	30			0,0933	60,63	384,33	259,17		
	100				130					90	0,1154		61,32	188,49	
160	90	M68x2		21	126	100	33			0,1234	86,08	502,64	343,60		
	110				143					100	0,1481		86,84	265,06	
180	100	M72x3		25	138	115	33			8	45	0,1461	111,11	636,15	439,81
	125				154							115	0,1925		112,55
200	110	M80x3		26	155	125	36					0,1966	152,02	785,37	547,80
	140				171							125	0,2428		154,55
220	125	M90x3		29	180	145	39	0,2574	216,36			950,30	643,52		
	160				196			145	0,3189				218,19	447,66	
250	140	M100x3	M33x2	32	194	165	42	0,2849	275,10	1227,10	842,31				
	180				200			165	0,3638		279,91	590,90			
280	160	M110x3		33	199	145	46	0,4541	442,91		1538,60	1036,20			

Calculation of total mass $M = m + \Delta m \cdot H$ (H- according to the order in the range $H_{min} \div H_{max}$)

F_{n1} - nominal useful pushing force, F_{n2} - nominal useful pulling force

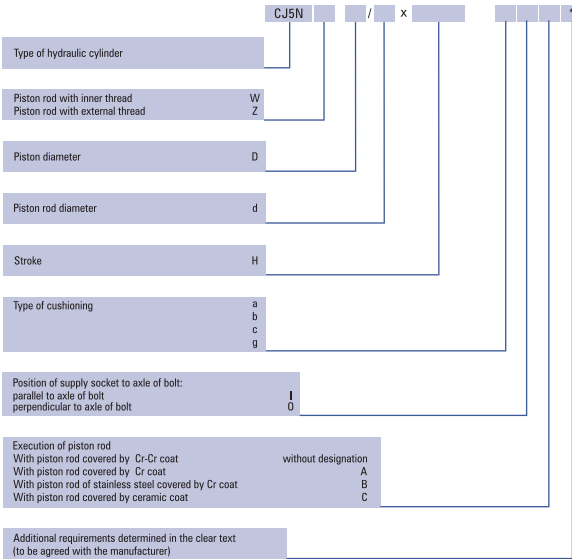
¹⁾ Permissible stroke in range nominal pressure (P_{nom} = 25 [MPa])

²⁾ Supply socket build in directly in the cylinder pipe (lack of spout) - we offer only supply socket form X acc. DIN3852

3. Execution

- 3.1. Hydraulic cylinder CJ5N is executed in four types of cushioning:
- one side cushioning not adjustable from the side without piston rod (designation “a”)
 - one side cushioning not adjustable from piston rod side (designation “b”)
 - two side cushioning not adjustable (designation “c”)
 - without cushioning (designation “g”)
- 3.2. Piston rod of hydraulic cylinder is executed:
- structural steel rod covered by a double hard chromium coat /Cr - Cr /Cr = 0,04 mm + Cr = 0,04 mm = 0,08 mm/ (without designation)
 - structural steel rod covered by a single hard chromium coat / Cr = 0,04 mm / (designation A)
 - stainless steel rod covered by a single hard chromium coat / Cr = 0,04 mm / (designation B)
 - structural steel rod covered by ceramic coat (designation C)

4. Designation structure of hydraulic cylinder CJ2N:



5. Ordering example

In an order of hydraulic cylinder there should be given: the name: Hydraulic Cylinder, the denomination acc. to 4, no. of catalogue card HM/54-21723/08.11

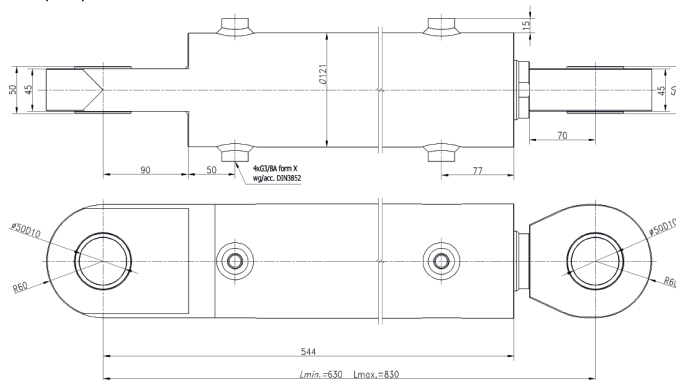
The example: HYDRAULIC CYLINDER CJ5Nw140/100 X 1400-g A acc. to HM/54-21723/08.11

The hydraulic cylinder CJ5N of double action type and flange mounting with one side piston rod, inner thread “w” in the piston rod diameter D=140 [mm], piston rod diameter d=100 [mm], stroke H=1400 [mm], without cushioning “g”, with piston rod covered by chromium coat “Cr”.

1. Destiny of the cylinder

Hydraulic cylinder with the internal locking mechanism is a piston type, double action, self-aligning mounting with one side piston rod cylinder. These kind of cylinders are designed to operate in hydraulic systems, where it is necessary to do the mechanical locking of piston rod in fully extension or retraction position, particularly in the case of disconnection of the hydraulic power for an extended period of time.

Drawing of an example cylinder CHB – size 100/63x200



2. Description of the action

The cylinder with an internal locking mechanism works as a normal cylinder. The difference is when piston rod is in maximum extension position, then the rod is automatically locked by internal locking devices. Cylinder is protected against rod self position change (even in the event of an external force, or break the power supply pipe). To release the locking mechanism and set in motion return movement of piston rod is needed to supply oil under pressure from the rod side.

3. Technical characteristics

3. 1	Nominal pressure	$P_{nom} = 21 \text{ MPa}$			
3. 2	Range of ambient temperatures	$T = -25^{\circ}\text{C} \div +80^{\circ}\text{C}$			
3. 3	Hydraulic Fluids	Hydraulic oils L-HL acc. to PN-C-96057-04:1991 and HL and. to DIN 51524 teil 1 and HL acc. to ISO 6743/4			
3. 4	Fluid cleanliness	$\leq 25 \mu\text{m}$			
3. 5	Piston diameters D [mm]	100	80	63	40
3. 6	Piston rod diameters d [mm]	63	45 lub 50	32	25
3. 7	Maximal stroke [mm]	800	600	400	300
3. 8	Maximal velocity of piston rod	0,1 m/s			

4. Execution

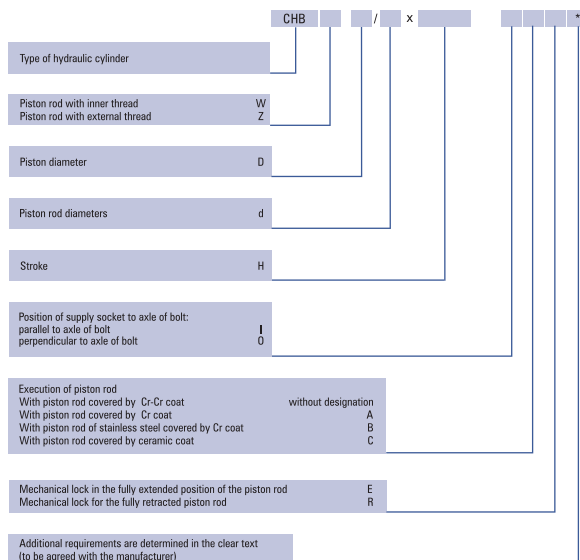
4.1. Hydraulic cylinders with an internal locking mechanism can be made in two variants:

- Mechanical lock in the fully extended position of the piston rod (marked E),
- Mechanical lock for the fully retracted piston rod (marked R).

4.2. Piston rod of hydraulic cylinder is executed:

- structural steel rod covered by a double hard chromium coat /Cr -Cr / Cr = 0,04 mm + Cr = 0,04 mm = 0,08 mm / (without designation)
- structural steel rod covered by a single hard chromium coat / Cr = 0,04 mm / (designation A)
- stainless steel rod covered by a single hard chromium coat / Cr = 0,04 mm / (designation B)
- structural steel rod covered by ceramic coat (designation C)

5. Designation structure of hydraulic cylinder CHB



6. Ordering example

In an order of cylinder there should be given: the name: Hydraulic cylinder with an internal locking mechanism, the denomination acc. to 4, no. of catalogue card HM/54-21712/00.09/04.14

The example: Hydraulic cylinder with an internal locking mechanism CHB w 100/63x200 IBE acc. HM/54-21712/00.09/04.14

The hydraulic cylinder with an internal locking mechanism CHB type with internal thread in the piston rod "w", the piston having a diameter D = 100 mm, rod diameter d = 63 mm, H = the working stroke of 200 mm, with the location of the gas feed holes "I", a stainless steel rod "B" Cr coated with a chromium coating having a thickness of 0.04 mm, and a block in the extended position of the piston rod "E".

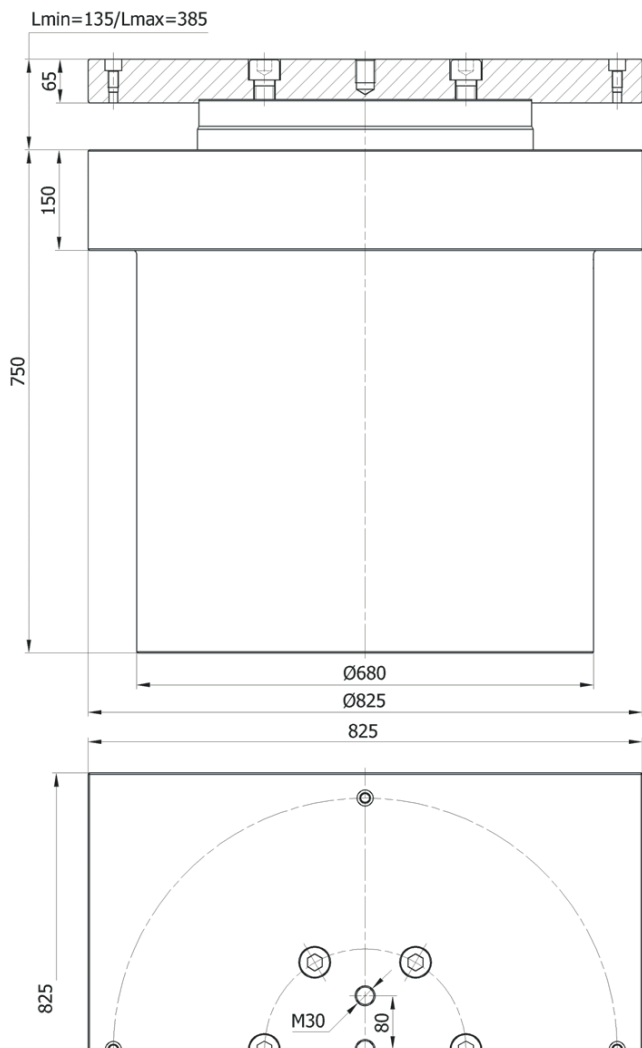
1. Destiny of the cylinder

Plunger hydraulic cylinder CHN, high-pressure cylinder, designed for installation in the construction of hydraulic presses.

2. Technical characteristics

Drawing of an example cylinder CHN – size 500x250

You can adjust the size of the hydraulic cylinder to the individual needs of the desired application.

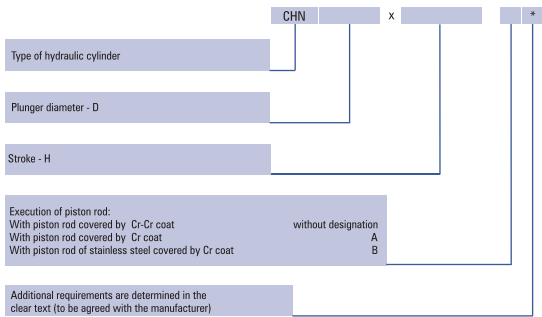


2. 1	Nominal pressure	$P_{nom} = 50 \text{ MPa}$
2. 2	Range of ambient temperatures	$T = -25^{\circ}\text{C} \div +80^{\circ}\text{C}$
2. 3	Hydraulic Fluids	oleje hydrauliczne L-HL wg PN-C-96057-04:1991 oraz HL wg DIN 51524 teil 1 oraz HL wg ISO 6743/4
2. 4	Fluid cleanliness	$\leq 25 \text{ }\mu\text{m}$
2. 5	Piston diameter [mm]	from 100 mm to 500 mm with increments of 10mm
2. 6	Stroke [mm]	From 100 mm to 500 mm, depending on the diameter of the plunger
2. 7	Maximal velocity of piston rod	0,1 m/s

3. Execution

- 3.1. Piston rod of hydraulic cylinder is executed:
- structural steel rod covered by a double hard chromium coat /Cr -Cr /Cr = 0,04 mm + Cr = 0,04 mm = 0,08 mm/ (without designation)
 - structural steel rod covered by a single hard chromium coat / Cr = 0,04 mm / (designation A)
 - stainless steel rod covered by a single hard chromium coat / Cr = 0,04 mm / (designation B)

4. Designation structure of hydraulic cylinder CHN



5. Ordering example

In an order of cylinder there should be given: the name: Plunger hydraulic cylinder, the denomination acc. to 3, no. of catalogue card HM/54-23705/00.01/04.14

the example: Plunger hydraulic cylinder CHN 500x250 A acc. HM/54-23705/00.01/04.14

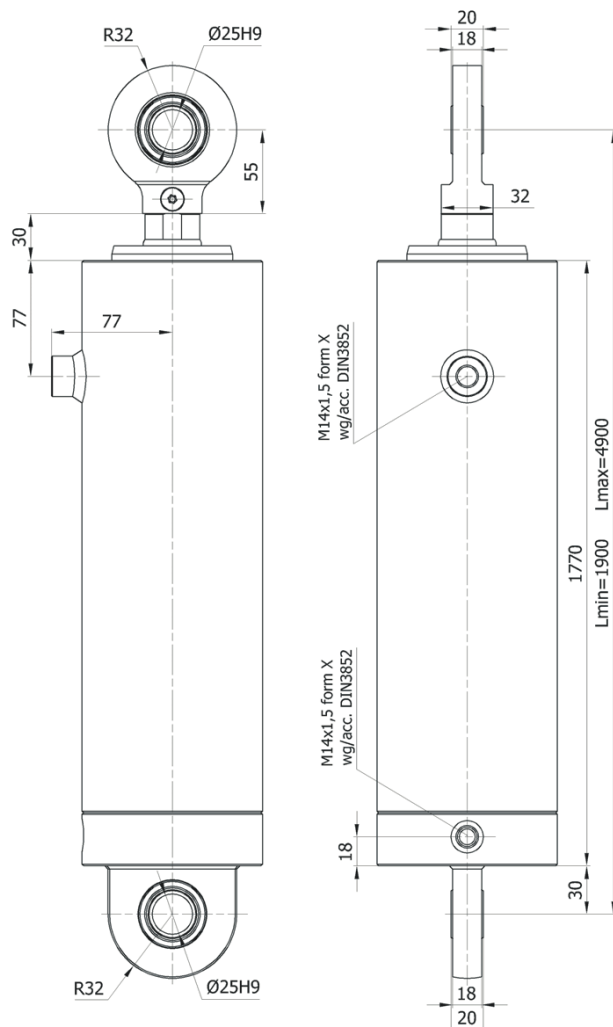
The hydraulic cylinder plunger, the plunger having a diameter D = 500 mm, the working stroke of the plunger H = 250 mm and a piston rod made of structural steel, chromium plated with Cr coating 0.04 mm thick.

1. Destiny of the cylinder

Telescopic hydraulic cylinder CHT is a double action cylinder designed to operate in hydraulic systems on board ships and on land. Cylinders of this type are used in the construction of elevators

2. Technical characteristics

Drawing of an exemplary cylinder CHT – size 63/100x3000 mounted on the bolts

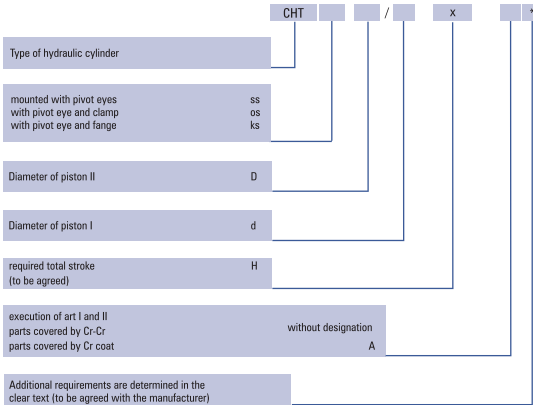


2. 1	Nominal pressure	$P_{nom} = 25 \text{ MPa}$		
2. 2	Allowable force pushing	depending on the diametrical dimensions		
2. 3	Range of ambient temperatures	$T = -25^{\circ}\text{C} \div +80^{\circ}\text{C}$		
2. 4	Hydraulic Fluids	Hydraulic oils L-HL acc. to PN-C-96057-04:1991 and HL and. to DIN 51524 teil 1 and HL acc. to ISO 6743/4		
2. 5	Fluid cleanliness	$\leq 25 \mu\text{m}$		
2. 6	Diameter of piston I D1 [mm]	115	100	90
2. 7	Diameter of part I d1 [mm]	100	90	80
2. 8	Diameter of piston II D2 [mm]	70	63	50
2. 9	Diameter of part II d2 [mm]	45	50	40
2. 10	Stroke	depending on the diametrical dimensions and operating conditions		
2. 11	Maximal velocity of piston rod	0,1 m/s		

3. Execution

- 3.1. Piston rod of hydraulic cylinder is executed:
- structural steel rod covered by a double hard chromium coat /Cr -Cr /Cr = 0,04 mm + Cr = 0,04 mm = 0,08 mm/ (without designation)
 - structural steel rod covered by a single hard chromium coat / Cr = 0,04 mm / (designation A)

4. Designation structure of hydraulic cylinder CHT



5. Ordering example

In an order of cylinder there should be given: the name: Telescopic hydraulic cylinder, the denomination acc. to 3, no. of catalogue card HM/54-25702/00.01/04.14

the example: a) Telescopic hydraulic cylinder CHTks 63/100x3000A acc. HM/54-25702/00.01/04.14 (mounting with the flange and pivot eye).

Telescopic hydraulic cylinder, mounted flange ks, with a piston diameter D2 = 63 mm, piston diameter D1 = 100 mm, stroke H = 3000 mm, and segments made of structural steel covered with a layer of chromium thickness of 0.04 mm.

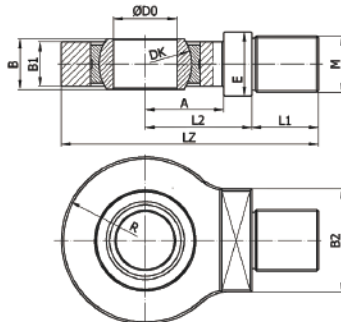
1. Destiny of the cylinder

Lug type MKN is designed as installation holders for hydraulic cylinder CJ2N and CJ5N.

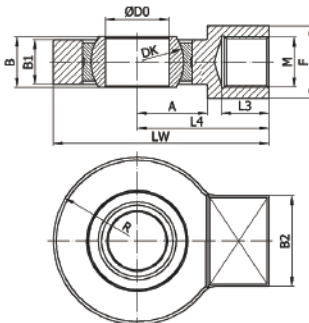
2. Technical characteristics

- 2.1. Dimensions: acc. to denominations on drawings and values in the table
- 2.2. Allowed tension axial force P: acc. to the table
- 2.3. Maximal deflection angle of bearing: $\pm 3^\circ$
- 2.4. Lubrication of grease through hollow holes

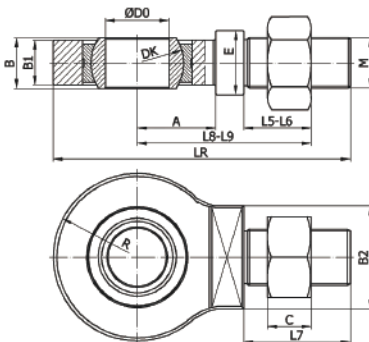
LUG MKN...z



LUG MKN...w



LUG MKN...zr



D0(H9) [mm]	Dimensions											
	M [mm]	A [mm]	B [mm]	B1 [mm]	B2 [mm]	C [mm]	DK [mm]	E [mm]	F [mm]	LZ [mm]	LW [mm]	LR [mm]
22	M16x1,5	25	18	14	32	13	35	22	24	81	77	121
25	M22x1,5	28	20	16	37	18	38	27	30	92	88	137
35	M27x2	36	25	20	46	22	48	32	36	115	109	162
40	M33x2	45	28	25	58	26	60	41	46	146	139	194
50	M42x2	56	35	32	74	32	75	50	60	174	173	230
60	M52x2	70	44	40	92	41	95	60	75	216	206	276
70	M60x2	80	49	45	104	48	110	70	85	239	234	312
80	M68x2	90	55	50	115	52	120	75	95	273	267	349
90	M72x3	100	60	56	129	55	140	80	105	302	299	386
100	M80x3	110	70	63	145	62	155	90	115	342	332	432
110	M90x3	125	70	70	161	70	175	100	130	386	371	478
120	M100x3	140	85	80	184	78	195	115	155	425	410	530
140	M110x3	155	90	95	232	105	220	145	–	500	–	633

D0(H9) [mm]	Dimensions										P [kN]	Mass		
	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	L9 [mm]	R [mm]		z [kg]	w [kg]	zr [kg]
22	18	36	20	50	14	34	58	54	74	27	22	0,30	0,28	0,40
25	20	40	22	56	23	43	65	63	83	32	34	0,38	0,45	0,65
35	25	50	28	69	27	47	72	77	97	40	53	1,10	0,52	2,00
40	32	63	34	88	30	50	80	93	113	51	85	1,92	1,10	2,28
50	36	75	40	110	37	57	92	112	132	63	135	3,60	2,40	4,52
60	45	95	48	130	45	65	105	140	160	76	210	5,85	4,30	9,14
70	50	105	55	150	53	73	123	158	178	84	260	8,79	6,20	13,61
80	56	120	60	170	57	77	132	177	197	97	345	13,00	9,00	20,00
90	63	130	70	190	62	82	147	192	212	109	440	13,70	14,00	34,60
100	70	150	75	210	70	90	160	220	240	122	550	19,20	19,00	38,70
110	80	170	85	235	77	97	172	247	267	136	645	26,10	26,00	48,00
120	85	190	90	260	85	105	190	275	295	150	840	34,30	34,30	68,00
140	112	210	—	—	115	135	245	325	345	178	1035	84,60	—	94,20

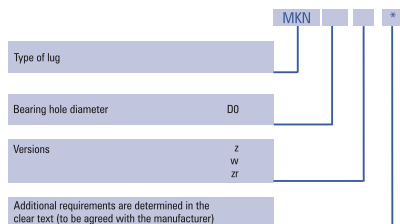
1. Dimensions A, B, B1, D0 and M are in accordance with relevant dimensions of hydraulic cylinders CJ2N.
2. Lug type MK...zr is adapted to adjust depth of screwing-in lug onto piston rod within 20 mm.
3. Selection of lug and bolt fit according to installation conditions is made by a designer of the unit. Recommended fit H9/f8.

3. Execution

Lug type MK is made in three versions:

- lug with external thread - z
- lug with inner thread - w
- regulated lug with external thread - zr

4. Designation structure of Lug MKN



5. Ordering example

In an order of lug there should be given: the name: Lug, the denomination acc. to 4, no. of catalogue card HM/54-21724/09.10

the example: Lug MKN 110 zr acc. to HM/54-21724/09.10

The lug type MKN of hole diameter D0=110, with external thread zr, regulated.



The Design Office also designs hydraulic cylinders for individual needs of the client (individual/specialized versions).
Please contact sales@hydromega.com.pl