

NIMET

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INNOVATION
LIVES



CT

CHROME PLATED STEEL TUBES

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CT

NIMAX CT - E355+SR
NIMAX CT - P460N+N
NIMAX CT - 20MnV6

Replaces the solid piston rod in systems where the total weight needs to be minimized.

STEEL GRADES CORRESPONDENTS

EN	Werkstoff	DIN	B.S.	UNI	JIS	GOST	AISI / SAE / ASTM
E355	1.0580	St52	CFS5	Fe510	STKM19A	St6sp	1524 / 1024
P460N	1.8905	StE460	55C	FeE460KG	-	18G2AF	-
-	1.5217	20MnV6	55M	-	-	-	A572

CHEMICAL COMPOSITION - IN % BY WEIGHT

Steel grade	C	Si	Mn	P	S	Cr	Mo	Ni	V	Cu	N
E355	max. 0.22	max. 0.55	max. 1.60	max. 0.025	max. 0.025	-	-	-	-	-	-
P460N	max. 0.20	max. 0.60	1.00 ÷ 1.70	max. 0.025	max. 0.020	max. 0.30	max. 0.10	max. 0.80	max. 0.20	max. 0.70	max. 0.020
20MnV6	0.16 ÷ 0.22	0.10 ÷ 0.50	1.30 ÷ 1.70	max. 0.035	max. 0.035	-	-	-	0.08 ÷ 0.20	-	-

*Cr+Mo+Ni = max. 0.63

MECHANICAL PROPERTIES

Steel grade	Tensile strength	Yield point	Elongation (longitudinal)	Impact energy (longitudinal direction)	Hardness ***	Norm
	R _m N/mm ²	R _{p0.2} N/mm ²	A ₅ %	KV ₂ J	Brinell N/mm ²	
E355+SR	min. 580	min. 450	min. 10	(min. 27J / -20°C)**	min. 175	EN 10305-1
P460N+N	560 - 730	min. 460*	min. 19	min. 40J / -20°C	170 - 220	EN 10216-3
20MnV6+N	550 - 800	min. 450	min. 22	min. 27J / -20°C	165 - 240	Technical data according to internal norm

SR = stress-relieved, N = normalized

* Wall thickness ≤ 12 mm

** On request

*** The hardness values is for information only

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Outside diameter - OD	Ø12 - 140 mm
Inside diameter - ID	see standard dimensions range
Outside tolerance - OD	ISO f7 / ISO f8 / other, on request
Roundness - OD	max. 1/2 from diameter tolerance
Standard lengths	5.000 - 7.500 mm
Special lengths	On request we can offer cut to fix lengths pieces and special lengths up to 11.500 mm
Surface roughness - OD	Ra: max. 0.20 µm
Chrome layer thickness	OD < 20 mm: min. 15 µm OD ≥ 20 mm: min. 20 µm
Chrome layer microhardness	min. 900 HV0.1
Straightness	max. 0.25 mm / 1000 mm

TABLE OF DIMENSIONS OD TOLERANCE

Diameter mm	ISO f7 µm	ISO f8 µm
10 < Ø ≤ 18	-16 / -34	-16 / -43
18 < Ø ≤ 30	-20 / -41	-20 / -53
30 < Ø ≤ 50	-25 / -50	-25 / -64
50 < Ø ≤ 80	-30 / -60	-30 / -76
80 < Ø ≤ 120	-36 / -71	-36 / -90
120 < Ø ≤ 140	-43 / -83	-43 / -106

STANDARD DIMENSIONS RANGE

Outside diameter mm	12	16	20	25	28	30	32	35	40	45	50	55	60	63	65	70	75	80	85	90	100	110	120	140
Inside diameter mm	8	10	14	15	16	15	16	25	20	25	30	35	40	43	45	50	55	60	65	70	80	90	100	120
	-	-	15	18	-	20	20	20	25	30	35	40	45	53	50	55	60	65	75	75	85	95	-	-
	-	-	-	20	-	-	-	-	30	35	40	45	50	-	55	60	65	70	-	80	90	-	-	-
Wall thickness mm	2	3	3	5	6	7.5	8	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	-	-	2.5	3.5	-	5	6	7.5	7.5	7.5	7.5	7.5	7.5	5	7.5	7.5	7.5	7.5	5	7.5	7.5	7.5	-	-
	-	-	-	2.5	-	-	-	-	5	5	5	5	5	-	5	5	5	5	-	5	5	-	-	-

CORROSION RESISTANCE LEVELS

Production	Diameter mm	Mild corrosion resistance		Medium corrosion resistance		High corrosion resistance	
		NIMAX 120		NIMAX 200		NIMAX 500	
		NSS	AASS	NSS	AASS	NSS	AASS
Regular	Ø < 20	rating 9 after 72 h					
	Ø ≥ 20	rating 9 after 120 h	rating 9 after 48 h	rating 9 after 200 h	rating 9 after 80 h	rating 9 after 500 h	rating 9 after 200 h
Special	Ø ≥ 20	rating 10 after 120 h	rating 10 after 48 h	rating 10 after 250 h	rating 10 after 100 h	rating 10 after 500 h	rating 10 after 200 h

Tested in our own laboratory according to ISO 9227, evaluated according to ISO 10289.

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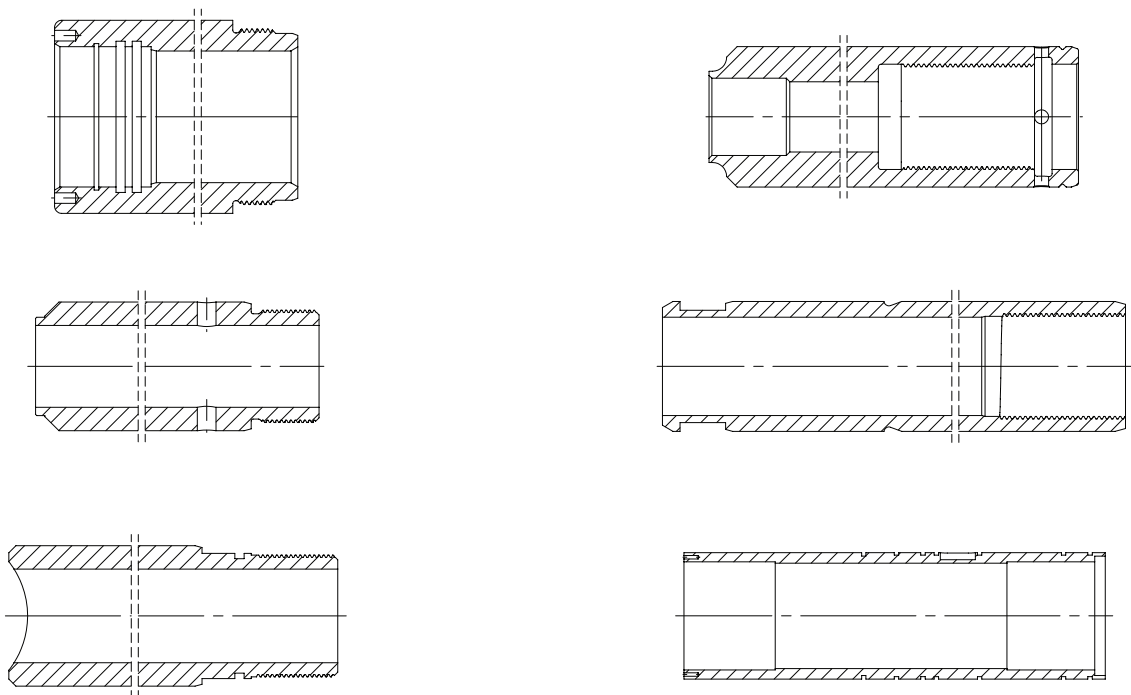
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CUSTOMIZED MACHINING



STORAGE AND HANDLING RECOMMENDATIONS

- Keep the products stored in dry and covered spaces.
- Do not expose for a long time the bars or tubes to the sunlight or to very low temperatures.
- For storage, preferable to use rubber supports or wood lined supports; direct contact with the floor and steel supports that are not lined with soft materials must be avoided.
- Whenever possible, please use the crane to load or unload the bundles; when you use the fork lifts please avoid the direct contact of the forks with the products.
- Always lift the bundles using textile slings. Don't use metal slings during handling of bundles.
- Always keep dry the cardboard tubes that protect the chromed products.



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