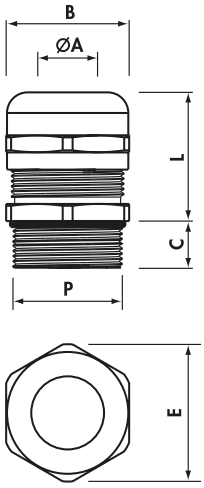
STAINLESS STEEL CABLE GLANDS METRIC THREAD M1.5 PITCH and Pg THREAD
MAXIinox SERIES 7900 STAINLESS STEEL AISI 303 (X8 CrNiS 18-9)
MAXIinox SERIES 7900A STAINLESS STEEL AISI 316L (X2 CrNiMo 17-12-2)

Stainless Steel AISI 303 — Metric thread M 1.5 pitch CEI EN 60423 CEI EN 50262

MAXIinox

Material:
Stainless Steel 303 (X8 CrNiS 18-9)
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A (factory fitted)
Protection: IP 68
Temperature range: -25°C to +100°C (continuous)



Stainless Steel AISI 303	P	Fixing Hole (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
7900.M12	M12X1,5	12,5	3 - 7	16	18	6,5	16-20	90/30
7900.M16	M16X1,5	16,5	4,5-10	20	23	7,0	20-25	120/30
7900.M20	M20X1,5	20,5	7 -13	24	27	8,0	20-27	75/25
7900.M25	M25X1,5	25,5	10 -17	29	32	8,0	24-30	40/20
7900.M32	M32X1,5	32,5	11 -21	36	40	9,0	27-34	15
7900.M40	M40X1,5	40,5	19 -28	45	50	9,0	34-42	15
7900.M50	M50X1,5	50,5	26 -35	54	60	10,0	35-43	10
7900.M63	M63X1,5	63,5	34 -45	67	74	15,0	40-52	5

Pg thread DIN 40 430

Stainless Steel AISI 303	P	Fixing Hole (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
7900.07	Pg 7	12,5	3 - 7	16	18	5,0	16-20	90/30
7900.09	Pg 9	15,5	4 - 8	17	19	6,0	17-23	90/30
7900.11	Pg11	19,0	4,5-10	20	23	6,0	20-25	60/30
7900.13	Pg13,5	20,5	5 -12	22	25	6,5	20-26	90/30
7900.16	Pg16	22,5	7 -13	24	27	6,5	20-27	60/30
7900.21	Pg21	29,0	10 -17	30	33	7,0	24-30	40/20
7900.29	Pg29	37,0	17 -25	40	45	8,0	30-37	30/15
7900.36	Pg36	47,0	20 -32	50	55	8,0	38-48	10
7900.42	Pg42	54,0	28 -38	57	63	10,0	36-46	5
7900.48	Pg48	60,0	34 -45	67	74	15,0	40-52	5

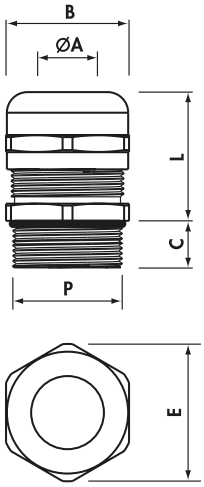
Cembre SpA
Via Serenissima, 9 - 25135 Brescia (Italy)
Tel.: +39 030 36921 - Fax: +39 030 3365766
Web: www.cembre.com - Email: info@cembre.com

STAINLESS STEEL CABLE GLANDS METRIC THREAD M1.5 PITCH and Pg THREAD
MAXIinox SERIES 7900 STAINLESS STEEL AISI 303 (X8 CrNiS 18-9)
MAXIinox SERIES 7900A STAINLESS STEEL AISI 316L (X2 CrNiMo 17-12-2)

STAINLESS STEEL AISI 316L — Metric thread M 1.5 pitch CEI EN 60423 CEI EN 50262

MAXIinox

Material:
Stainless Steel 316L (X2 CrNiMo 17-12-2)
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A (factory fitted)
Protection: IP 68
Temperature range: -25°C to +100°C (continuous)



Stainless Steel AISI 316L	P	Fixing Hole (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
7900A.M12	M12X1,5	12,5	3 - 7	16	18	6,5	16-20	60/20
7900A.M16	M16X1,5	16,5	4,5-10	20	23	7,0	20-25	80/20
7900A.M20	M20X1,5	20,5	7 -13	24	27	8,0	20-27	60/20
7900A.M25	M25X1,5	25,5	10 -17	29	32	8,0	24-30	30/15
7900A.M32	M32X1,5	32,5	11 -21	36	40	9,0	27-34	12
7900A.M40	M40X1,5	40,5	19 -28	45	50	9,0	34-42	10
7900A.M50	M50X1,5	50,5	26 -35	54	60	10,0	35-43	7
7900A.M63	M63X1,5	63,5	34 -45	67	74	15,0	40-52	5

Pg thread DIN 40 430

Stainless Steel AISI 316L	P	Fixing Hole (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
7900A.07	Pg 7	12,5	3 - 7	16	18	5,0	16-20	60/20
7900A.09	Pg 9	15,5	4 - 8	17	19	6,0	17-23	60/20
7900A.11	Pg11	19,0	4,5-10	20	23	6,0	20-25	100/20
7900A.13	Pg13,5	20,5	5 -12	22	25	6,5	20-26	100/20
7900A.16	Pg16	22,5	7 -13	24	27	6,5	20-27	40/20
7900A.21	Pg21	29,0	10 -17	30	33	7,0	24-30	60/15
7900A.29	Pg29	37,0	17 -25	40	45	8,0	30-37	20/10
7900A.36	Pg36	47,0	20 -32	50	55	8,0	38-48	7
7900A.42	Pg42	54,0	28 -38	57	63	10,0	36-46	5
7900A.48	Pg48	60,0	34 -45	67	74	15,0	40-52	5

Cembre SpA
Via Serenissima, 9 - 25135 Brescia (Italy)
Tel.: +39 030 36921 - Fax: +39 030 3365766
Web: www.cembre.com - Email: info@cembre.com

Prepared by: Marketing dept. *Date: 11/01/2016*

STAINLESS STEEL CABLE GLANDS METRIC THREAD M1.5 PITCH and Pg THREAD
MAXlinox SERIES 7900 STAINLESS STEEL AISI 303 (X8 CrNiS 18-9)
MAXlinox SERIES 7900A STAINLESS STEEL AISI 316L (X2 CrNiMo 17-12-2)

CHARACTERISTICS OF STAINLESS STEEL USED IN CEMBRE CABLE GLANDS AND LOCKNUTS

AISI 303

CONFORMITY WITH NORMS
EN 10088/3 X 8 Cr Ni S18-9
DIN 1.4305
JIS SUS 303
ASTM 303

TYPICAL CHEMICAL ANALYSIS %

C	Mnmax	Pmax	Smax	Simax
0.10	2	0.045	0.15÷0.35	1

Cr	Ni	Mo	Other
17÷19	8÷10	-	N ≤ 0.11; Cu ≤ 1

DESCRIPTION
Austenitic Stainless Steel, non-magnetic in annealed state, slightly magnetic if cold machined. Not hardenable by heat treatment.
Hardenable through cold deformation.
Excellent formability and resistance to seizure due to the addition of Sulphur.

CORROSION RESISTANCE
Good in atmosphere, in presence of alimentary substances and organic chemical products; limited resistance to strongly corrosive substances such as the acids.

PHYSICAL CHARACTERISTICS
Modulus of elasticity 200.000 [N/mm^2]
Thermal conductivity 15 [W/mK]
Specific heat capacity 500 [J/KgK]
Coefficients of linear expansion
(20°- 200°C) 16.5 [10^{-6}K^{-1}]
(20°- 400°C) 17.5 [10^{-6}K^{-1}]
(20°- 600°C) 18.5 [10^{-6}K^{-1}]

MECHANICAL CHARACTERISTICS
Enervation load RP0.2 ≥ 190 [N/mm^2]
Yield strength Rm 500÷750 [N/mm^2]
Extension A 5% ≥ 35
Brinnel hardness HB ≤ 230

AISI 316L

CONFORMITY WITH NORMS
EN 10088/3 X 2 Cr Ni Mo17-12-2
DIN 1.4404
JIS SUS 316L
ASTM 316L

TYPICAL CHEMICAL ANALYSIS %

C	Mnmax	Pmax	Smax	Simax
0.03	2	0.045	0.015	1

Cr	Ni	Mo	Other
16.5÷18.5	10÷13	2÷2.5	N ≤ 0.11

DESCRIPTION
Austenitic Stainless Steel, non-magnetic in annealed state, slightly magnetic if cold machined. Not hardenable by heat treatment.
Hardenable through cold deformation.
Resistant to inter-crystalline corrosion and Chloride pitting.
Lower Carbon content than AISI316.

CORROSION RESISTANCE
Good up to 850°C under conditions of continuous service and up to 800°C under conditions of intermittent service.

PHYSICAL CHARACTERISTICS
Modulus of elasticity 200.000 [N/mm^2]
Thermal conductivity 15 [W/mK]
Specific heat capacity 500 [J/KgK]
Coefficients of linear expansion
(20°- 200°C) 16.5 [10^{-6}K^{-1}]
(20°- 400°C) 17.5 [10^{-6}K^{-1}]
(20°- 600°C) 18.5 [10^{-6}K^{-1}]

MECHANICAL CHARACTERISTICS
Enervation load RP0.2 ≥ 200 [N/mm^2]
Yield strength Rm 500÷700 [N/mm^2]
Extension A 5% ≥ 40
Brinnel hardness HB ≤ 215

Cembre SpA
Via Serenissima, 9 - 25135 Brescia (Italy)
Tel.: +39 030 36921 - Fax: +39 030 3365766
Web: www.cembre.com - Email: info@cembre.com

STAINLESS STEEL CABLE GLANDS METRIC THREAD M1.5 PITCH and Pg THREAD
MAXlinox SERIES 7900 STAINLESS STEEL AISI 303 (X8 CrNiS 18-9)
MAXlinox SERIES 7900A STAINLESS STEEL AISI 316L (X2 CrNiMo 17-12-2)

INDUSTRIES USING STAINLESS STEEL CABLE GLANDS

Food & Beverage	General Food Processing	303 or 316L
	Milk & Dairy	303 or 316L
	Brewery and Wine	303 or 316L
	Bottling	303 or 316L
	Bakeries	303 or 316L
Chemical	Pharmaceutical	316L
	Petrochemical	316L
Marine	Offshore Drilling	316L
	Shipping	316L
Water	Waste Water Treatment	303 or 316L
	Potable Water Treatment	303 or 316L
	Desalination	316L
	Distribution	303 or 316L
Materials	Pulp	316L
	Paper	303 or 316L
	Rubber	316L
	Plastic	303 or 316L
Mining	Ore	303 or 316L
	Salt	316L
	Coal	303 or 316L

CHEMICAL RESISTANCE

The following chart shows how 303 and 316L Stainless Steels react with some of the chemicals present in common application environments:

	COMPATIBILITY	
Chemical	**AISI 303**	**AISI 316L**
Acetic acid (20%)	Good	Excellent
Citric acid	Good	Excellent
Fatty acids	Good	Excellent
Fresh water	Excellent	Excellent
Hydrochloric acid*	Poor	Poor
Nitric acid	Excellent	Good
Phosphoric acid	Poor	Fair
Sea water	Poor	Fair
Sodium hydroxide	Good	Good
Sodium hypochlorite (<20%)	Fair	Fair
Sulphur dioxide	Poor	Excellent
Sulphuric acid (<10%)	Poor	Good

** Resistance to Hydrochloric acid is limited as this substance permanently damages the surface passivation.*

Stainless Steel cable glands can be employed in many aggressive industrial environments.
7900 series glands in AISI 303 Stainless Steel are suitable for the majority of applications presenting a threat of moderate corrosion.
Applications in more hostile environments may require the use of 7900A series glands in AISI 316L Stainless Steel however the concentration of and exposure to corrosive substances must be carefully examined.

Cembre SpA
Via Serenissima, 9 - 25135 Brescia (Italy)
Tel.: +39 030 36921 - Fax: +39 030 3365766
Web: www.cembre.com - Email: info@cembre.com

Prepared by: Marketing dept. *Date: 11/01/2016*