



# TLX Series

*-The coupling that will stand when the others fall*



# TLX Series



- *The Super-Duty connector with extremely high resilience to surge flows...*
- *The Super-Duty connector that handles the pressure impulses...*
- *The Super-Duty connector with pure and simple robustness...*

*...designated for the toughest construction and demolition applications*

The most common reason for failure on screw-to-connect couplings in heavy duty applications are high surge flow. For an example when using a crusher on concrete you will build up high pressure right before you bite through the concrete and at the moment the crusher bites through the concrete you will get an extreme surge flow during a very short period. This surge flow can be several times higher than the ordinary flow rate in the machine and is the cause of many coupling failures. The solution so far has been to use bulky oversized couplings at much higher cost. The new solution is called TLX.

The CEJN TLX has its roots from a patented design with verified performance during many years in industrial auto-couplings which are connected at full working pressure on both sides and used in tough impulse applications. The design of the TLX valve package is very robust and the seals are protected from being flushed away by surge flow. TLX is designed with a high pitch, high strength round thread profile but without sensitive eliminators or complicated locking systems.

TLX is a flat-face Twist Lock Coupling made of high alloy steel and critical components are hardened for maximum performance. The surface treatment is Zinc-Nickel which is by far the best surface treatment on steel available. The TLX is a spill free coupling and fully in line with CEJN's ambition to supply products for clean and leak-free hydraulic systems.

The flow rate on TLX is not limited at a certain level as it can handle really high flow without failures. The limitation is on the machine as you don't want to get too high pressure drop which will lead to heat build-up in the hydraulic system. If you choose the appropriate size TLX for the flow rate the pump generates, TLX will also handle the surge flow that can occur in certain applications.



## Technical data

**Temperature range:** ..... -30°C – +100°C (-22°F – +212°F)

**Material seal:**..... Nitrile (NBR)

**Material:** ..... High alloy steels with Zinc-Nickel surface

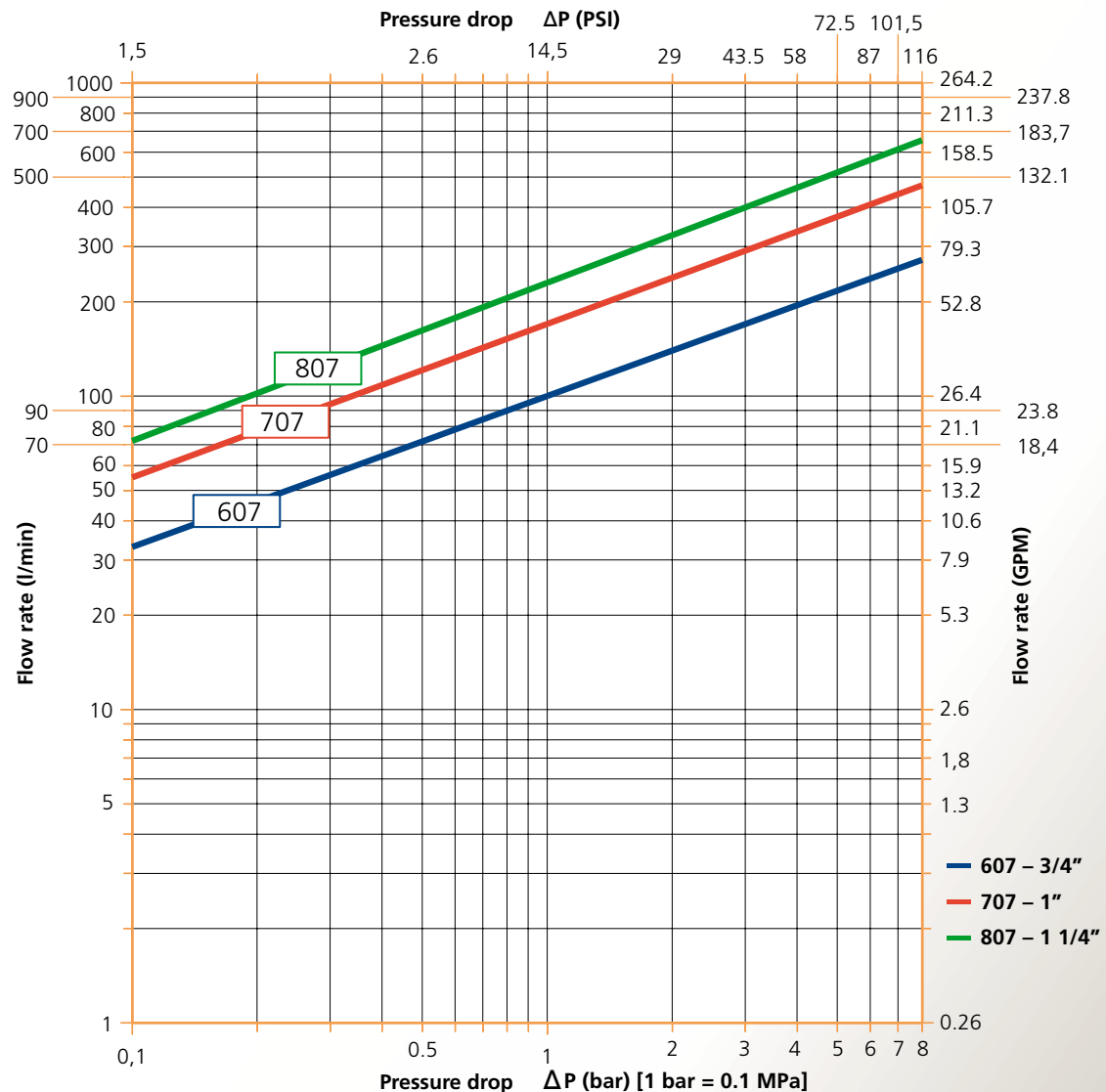
**Connectability:** ..... Connection with residual pressure only limited by operator strength

**Disconnection under pressure:** ..... Disconnection with residual pressure in the system is allowed

Body Size		Rated flow $\Delta P = 3 \text{ Bar}$		Max. working pressure				Min. burst pressure			
Inch	Dash	(l/min)**	(GPM UK)**	Connected		Disconnected		Connected		Disconnected	
				(bar)	(PSI)	(bar)	(PSI)	(bar)	(PSI)	(bar)	(PSI)
3/4"	-12	160	35.2	400	5800	330	4790	1600	23210	1000	14500
1"	-16	285	62.7	400	5800	330	4790	1600	23210	1000	14500
1 1/4"	-20	400	88.0	400	5800	330	4790	1600	23210	1000	14500

- TLX is pressure impulse tested at 500 bar (7250 psi) for 1.000.000 impulses acc. to ISO 7241-2

\*\* - If the application is constantly above this flow rate on respective coupling size, a larger coupling size should be considered to avoid too high pressure drop. The couplings can handle much higher flow rate during short time periods, but there is a risk of heat build-up in the system. Surge flows far above normal flow rate is in general not a problem.





## TLX Couplings & nipples

Body Size		Connection			Article number		Dimension locking sleeve Hex		Weight			
Inch	Dash	Description	Type	Standards	Coupling/Female	Nipple/Male	(mm)	(Inch)	Coupling		Nipple	
									(kg)	(lb)	(kg)	(lb)
3/4"	-12	Rc 3/4"	Female thread	ISO 7/1	106071101	106076101	55	2.17	1.66	3.7	1.19	2.6
3/4"	-12	G 3/4"	Female thread	DIN3852	106071301	106076301	55	2.17	0.98	2.2	1.10	2.4
3/4"	-12	G 1" fem	Female thread	DIN3852	106071203	106076203	55	2.17	1.29	2.8	1.14	2.5
3/4"	-12	G 3/4" JIS ORB	Female thread	JIS B2351	106071231	106076231	55	2.17	0.98	2.2	1.10	2.4
3/4"	-12	3/4" NPT	Female thread	ANSI B1.20.3	106071401	106076401	55	2.17	1.07	2.4	1.19	2.6
3/4"	-12	1 1/16"-12 UN (SAE 3/4")	Female thread	SAE J 1926-1	106071601	106076601	55	2.17	1.06	2.3	1.18	2.6
1"	-16	Rc 1"	Female thread	ISO 7/1	107071103	107076103	65	2.56	1.89	4.2	2.67	5.9
1"	-16	G 1"	Female thread	DIN3852	107071203	107076203	65	2.56	1.64	3.6	1.81	4.0
1"	-16	G 1 1/4"	Female thread	DIN3852	107071204	107076204	65	2.56	1.78	3.9	1.96	4.3
1"	-16	G 1" JIS ORB	Female thread	JIS B2351	107071233	107076233	65	2.56	1.63	3.6	1.81	4.0
1"	-16	1" NPT	Female thread	ANSI B1.20.3	107071403	107076403	65	2.56	1.89	4.2	2.07	4.6
1"	-16	1 5/16"-12 UN (SAE 1")	Female thread	SAE J 1926-1	107071603	107076603	65	2.56	1.83	4.0	2.59	5.7
1 1/4"	-20	Rc 1 1/4"	Female thread	ISO 7/1	108071104	108076104	75	2.95	3.04	6.7	3.63	8.0
1 1/4"	-20	G 1 1/4"	Female thread	DIN3852	108071204	108076204	75	2.95	2.84	6.3	3.16	7.0
1 1/4"	-20	G 1 1/2"	Female thread	DIN3852	108071205	108076205	75	2.95	2.95	6.5	3.54	7.8
1 1/4"	-20	G 1 1/4"	Female thread	JIS B2351	108071234	108076234	75	2.95	2.83	6.2	3.15	6.9
1 1/4"	-20	1 1/4" NPT	Female thread	ANSI B1.20.3	108071404	108076404	75	2.95	3.05	6.7	3.64	8.0
1 1/4"	-20	1 5/8"-12 UN - SAE 1 1/4" OR	Female thread	SAE J 1926-1	108071604	108076604	75	2.95	3.03	6.7	3.61	8.0



### Mounting Bracket - weldable

Body Size		Description	Article number
Inch	Dash		
3/4"	-12	Mounting bracket for TLX	106074960
1"	-16	Mounting bracket for TLX	107074970
1 1/4"	-16	Mounting bracket for TLX	108074980

### Monkey Wrench - accessory for simple connection that fits all sizes of TLX

Body Size		Description	Article number
Inch	Dash		
3/4"	-12	Monkey Wrench	108074999
1"	-16		
1 1/4"	-20		



All G-thread connection (BSP) TLX couplings and nipples above are stock standard items at factory. The other thread versions are produced on order and the typical lead time is two weeks from factory. The local CEJN companies may carry different versions as standard stock items. Check with an authorized CEJN distributor for availability and prices.



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