



# TLX Series

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

HYDRAULICS



# 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 OF SCREW-TO-CONNECT COUPLINGS IN HEAVY DUTY APPLICATIONS IS HIGH SURGE FLOWS**

For example, when using a crusher on concrete you will build up high pressure just before you bite through the concrete and, at the moment the crusher bites through the concrete, you will briefly get an extreme surge flow. 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 in a patented design with verified performance over 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 highly 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 of 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 of the TLX is not limited to a certain level as it can handle really high flow without failures. The limitation is on the part of the machine as you don't want to get too high a pressure drop as this will lead to heat build-up in the hydraulic system. If you choose the appropriate size TLX for the flow rate the pump generates, The 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

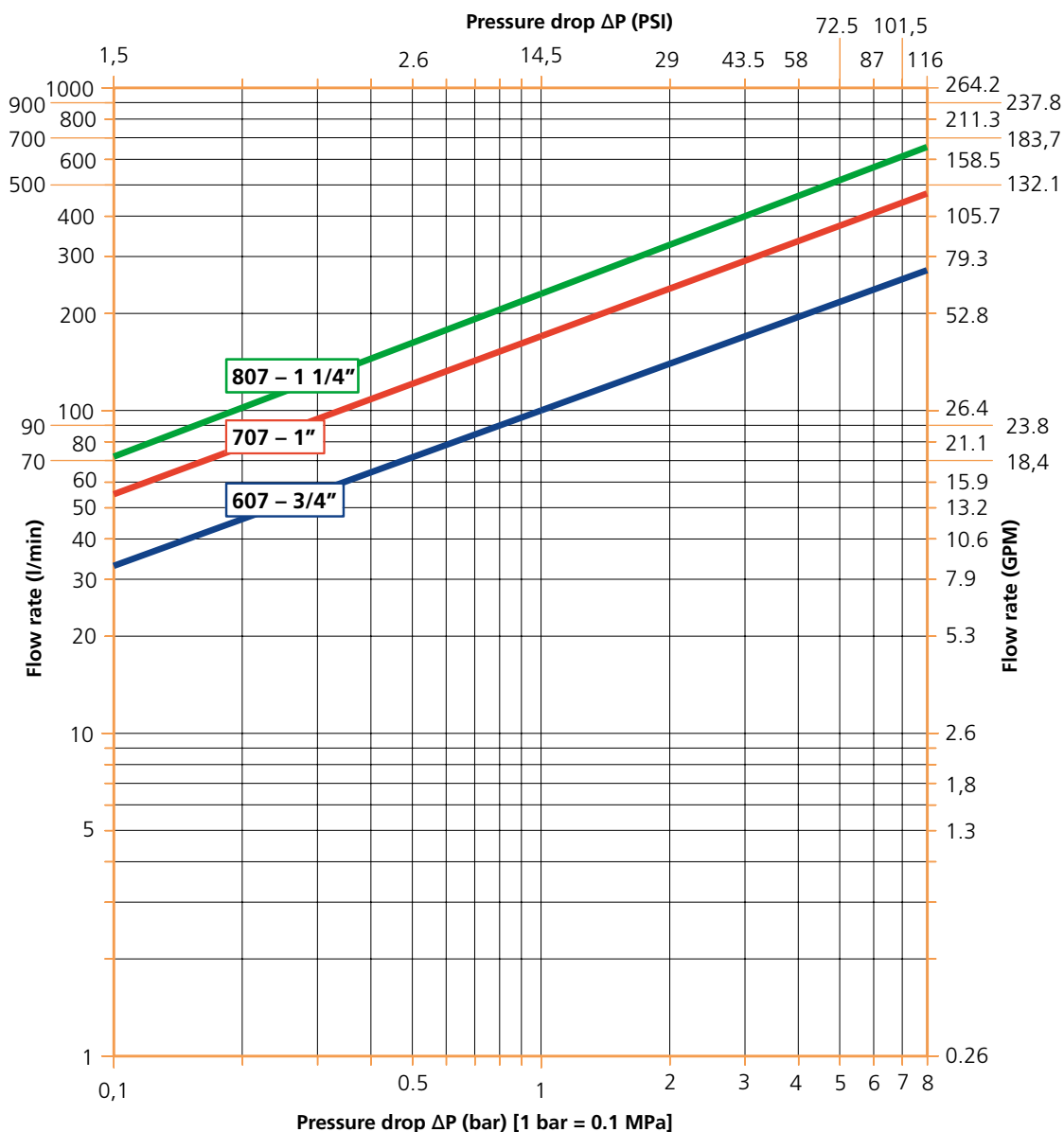
**Disconnection under pressure:** ..... Disconnection with residual pressure in the system is allowed

Body Size		Flow rate ΔP = 3 Bar		Max. working pressure				Min. burst pressure			
Inch	Dash	(l/min)**	(GPM)**	Connected (bar)	Disconnected (PSI)	Connected (bar)	Disconnected (PSI)	Connected (bar)	Disconnected (PSI)	Connected (bar)	Disconnected (PSI)
3/4"	-12	169	42.3	400	5800	330	4786	1600	23206	1000	14503
1"	-16	291	75.3	400	5800	330	4786	1600	23206	1000	14503
1 1/4"	-20	400	105.7	400	5800	330	4786	1600	23206	1000	14503

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 for the respective coupling size, a larger coupling size should be considered to avoid too high a pressure drop. The couplings can handle a much higher flow rate but there is a risk of heat build-up in the system. In general, surge flows far above the normal flow rate are not a problem.

### PRESSURE DROP CHART





# The Quick Connect Solution Provider

## TLX Couplings & Nipples

Body Size		Connection			Part No.		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	1.073	2.4	1.188	2.6
		G 3/4"	Female thread	DIN3852	106071301	106076301			0.989	2.2	1.105	2.4
		G 1"	Female thread		106071203	106076203			1.029	2.3	1.145	2.5
		G 3/4" JIS ORB	Female thread	JIS B2351	106071231	106076231			1.066	2.4	1.182	2.6
		3/4" NPT	Female thread	ANSI B1.20.3	106071401	106076401			1.079	2.4	1.195	2.6
		1 1/16"-12 UN (3/4" SAE)	Female thread	SAE J 1926-1	106071601	106076601			1.066	2.4	1.182	2.6
1"	-16	Rc 1"	Female thread	ISO 7/1	107071103	107076103	65	2.56	1.892	4.2	2.067	4.6
		G 1"	Female thread	DIN3852	107071203	107076203			1.644	3.6	1.819	4.0
		G 1 1/4"	Female thread		107071204	107076204			1.788	3.9	1.964	4.3
		G 1" JIS ORB	Female thread	JIS B2351	107071233	107076233			1.891	4.2	2.064	4.6
		1" NPT	Female thread	ANSI B1.20.3	107071403	107076403			1.899	4.2	2.074	4.6
		1 5/16"-12 UN (1" SAE)	Female thread	SAE J 1926-1	107071603	107076603			1.883	4.2	2.059	4.5
1 1/4"	-20	Rc 1 1/4"	Female thread	ISO 7/1	108071104	108076104	75	2.95	3.044	6.7	3.631	8.0
		G 1 1/4"	Female thread	DIN3852	108071204	108076204			2.843	6.3	3.168	7.0
		G 1 1/2"	Female thread		108071205	108076205			2.959	6.5	3.540	7.8
		G 1 1/4" JIS ORB	Female thread	JIS B2351	108071234	108076234			3.032	6.7	3.649	8.0
		1 1/4" NPT	Female thread	ANSI B1.20.3	108071404	108076404			3.052	6.7	3.640	8.0
		1 5/8"-12 UN - (1 1/4" SAE)	Female thread	SAE J 1926-1	108071604	108076604			3.030	6.7	3.619	8.0



### Mounting Bracket - Weldable

Coupling Size		Description	Part No.
Inch	Dash		
3/4"	-12	Mounting bracket for TLX	106074960
1"	-16		107074970
1 1/4"	-16		108074980



### Dust Caps - Plastic with wire harness

Coupling Size		Description	Part No.	
Inch	Dash		Coupling/Female	Nipple/Male
3/4"	-12	Dust cap	106071000	106071050
1"	-16		107071000	107071050
1 1/4"	-20		108071000	108071050

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

Coupling Size		Description	Part No.
Inch	Dash		
3/4"	-12	Monkey Wrench	108074999
1"	-16		
1 1/4"	-20		



Scan the code to visit our TLX site