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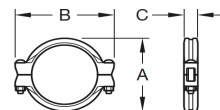
We reserve the right to change the technical data sheet without prior notice and without any obligation.

Grooved pipe couplings are used for quick and leak-proof connection between grooved pipes and/or grooved fittings.

The XGQT7 type **push-on** coupling does not allow pipe movement under pressure or during operation. It is suitable for both fire protection and HVAC applications (heating, ventilation, air conditioning).

Product photo	Nominal size (DN)	Size (inch)	Pipe out. diam. (mm)	Product number	Operating pressure (Psi)	Operating pressure (Bar)	Size (A) mm	Size (B) mm	Size (C) mm	Bolt x nut	Weight (kg/piece)	Carton quantity (pcs)	Remark
	25	1"	33.7	CPL-PO-033-X	300	20.7	57	98	46	M10 x 45	0,55	45	EPDM gasket
	32	1.1/4"	42.4	CPL-PO-042-X	300	20.7	64	110	47	M10 x 45	0,60	40	EPDM gasket
	40	1.1/2"	48.3	CPL-PO-048-X	300	20.7	69	116	47	M10 x 45	0,65	35	EPDM gasket
	50	2"	60.3	CPL-PO-060-X	300	20.7	83	128	47	M10 x 55	0,77	28	EPDM gasket
	65	2.1/2"	76.1	CPL-PO-076-X	300	20.7	98	145	47	M10 x 55	0,85	21	EPDM gasket
	80	3"	88.9	CPL-PO-089-X	300	20.7	108	158	48	M10 x 55	0,94	20	EPDM gasket
	100	4"	114.3	CPL-PO-114-X	300	20.7	135	188	48	M12 x 65	1,31	14	EPDM gasket
	125	5"	139.7	CPL-PO-139-X	300	20.7	164	223	49	M12 x 70	1,64	10	EPDM gasket
	150	6"	168.3	CPL-PO-168-X	300	20.7	192	249	49	M12 x 70	2,09	7	EPDM gasket
	200	8"	219.1	CPL-PO-219-X	300	20.7	250	318	57	M16 x 85	3,93	4	EPDM gasket
	250	10"	273.0	CPL-PO-273-X	300	20.7	315	410	63	M20 x 110	7,77	4	EPDM gasket
	300	12"	323.9	CPL-PO-324-X	300	20.7	372	470	63	M20 x 110	10,60	4	EPDM gasket

X: Painted = P (PTD), Hot dip galvanized = G (GLV), Dacromet = D (DACR) // Example: CPL-PO-048-P = painted version



Gasket	Name	Temperature range	General Service Recommendations	Color mark
E	EPDM	-34 - +110°C (-30 - +230°F)	Recommended for hot water, fire water, cooling and industrial water services within the specified temperature range plus a variety of dilute acids, oil-free air and many chemicals services. UL classified in accordance with ANSI/NSF 61 or cold +86°F (+30°C) and hot +180°F (+82°C) potable water service. Not recommended for petroleum service.	Green Strip
D	NBR	-29 - +82°C (-20 - +180°F)	Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not recommended for hot water services.	Orange strip
S	Silicone rubber	-40 - +177°C (-40 - +350°F)	Recommended for high temperature dry air and some high temperature chemical products.	White

Bolt sizes	M10	M12	M16	M20	M22
Spanner dimension	15	18	24	30	34
Tightening torque	40-60 Nm	110-135 Nm	135-175 Nm	175-245 Nm	245-325 Nm



Storage:
We suggest to store our products in a closed and dry environment.

Material specification:

Housing: Ductile iron (ASTM A536 GRADE: 64-45-12)
Gaskets: EPDM / NBR / Silicone

Corrosion resistance:

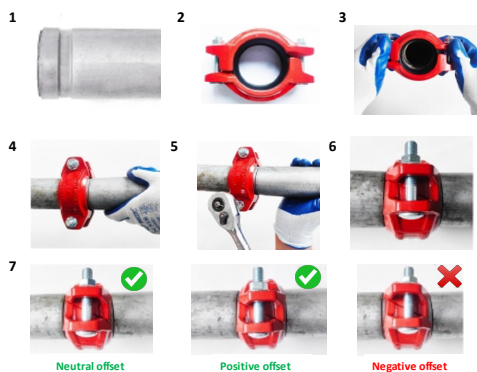
Painted: RAL3000 red, epoxy coating. Coating thickness: 80-150µm
Hot dip galvanized: Coating thickness: 60-120µm
Dacromet: Coating thickness: 8-18µm. (Resistant to neutral salt spray test for 480h.)

Installation recommendation:

Please read the technical data sheet and the installation instructions before working with the product! Installers must be trained or experienced in the installation of grooved pipe connection systems.
Never work on pipes under pressure and/or filled with water!
Use the necessary protective equipment to avoid personal injuries



Installation guide:



Caution:

Proper torquing of bolts is required to obtain specified performance. Overtorquing the bolts may result in damage to the bolt and/or casting which could result in pipe joint separation. Undertorquing the bolts may result in lower pressure retention capabilities, lower bend load capabilities, joint leakage and pipe joint separation. Pipe joint separation

1. Piping end checking:

The outer surface of the pipe from the end of the groove position must be clean and smooth, without burrs, depression, bulges (including welding line), no peeling paint and rolling indentation, etc. Check before installation to ensure that there are no defects that affect the sealing of the gasket. The pipe end size should confirm to the dimension table of the rolling or cut groove. The measurement

2. Gasket checking:

-Inspect the gasket to ensure that it is suitable for all working conditions.
- LUYUAN quick push couplings with pre-lubricating gasket are **currently mainly used in the firefighting field**.
- If the customer applies to other fields, it is necessary to use a non-pre-lubricating gasket, and installed it with lubricant or grease: apply a thin layer of lubricant or grease to the sealing lip edge of the sealing gasket

3. One side of pipe end connection:

Pushing the end of the grooved pipe or components into the joint, and the grooved end must be inserted into the joint to let it contact the central spacer bars' edge of the sealing gasket.

4. Another side of pipe end connection:

Inserting another pipe end or component from another side of the joint until the pipe end touches the spacer bars' edge of the rubber gasket's center. It is necessary to inspect visually to ensure that both sides of the coupling fit into the interconnection component's groove.

5. Tighten the nut:

Use a torque wrench to alternately and evenly tighten the nuts at both ends of the coupling to achieve the

6. Couplings installed:

Check the joints of the pipes and ensure that both sides of the coupling are completely inserted into the pipe groove. There is no gap on both sides of the joint of the two-coupling housing and no gasket ring is seen.

Warning: before installing, removing, adjusting or maintaining the quick push couplings, make sure the piping system is fully decompressed and drained of water.