



House and Service Connections

House/Service connections is a standard application when it comes to T-flex pipe systems. Specially manufactured fittings make it very convenient for water authorities to tap the distribution line without any chances of leakages. T-flex pipe systems offered by Dadex are manufactured from polyethylene (PE) compound. That is why T-flex provides professionals an option to choose the best system for the most demanding house and service connections.

Connection may be made by means of a clamp saddle and a male threaded elbow. Brass Ferrules may also be tightened on the clamp saddle in place of a male threaded elbow where connection may require to be temporarily disconnected.

T-flex possesses a range of unique properties unmatched by many conventional materials. It offers the benefit of tailoring its basic properties to match application requirements. For instance specially formulated UV resistant black polymer with blue stripes offer easy identification for potable water pipe systems.

Dadex Customer Services department is fully equipped with all tools and technical know-how for guiding customers through the product selection and installation phases, turning their investment in to a worth while experience that they benefit from for a number of years.

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WHY T-FLEX PIPE SYSTEM?

- T-flex pipes are resistant to corrosive chemicals. They do not support biological growth, and they resist the adherence of scale and deposits.
- Compression or butt fusion joining techniques used for T-flex pipe system provide leak-free joints that are chemically resistant as the pipe itself.
- T-flex pipes are light weight. This makes them easy to handle, transport and quick to install which leads to additional time and cost savings.

PRODUCT RANGE

T-flex Pipe Dimensions: T-flex pipes are manufactured in nominal outside diameter of size 20, 25, 32, 40, 50, 63, 75, 90, 110, 125, 160, 180, 200 and 250mm.

Standard Lengths: Coils up to 50m and 100m lengths are available for sizes up to 90mm. Pipes are available in straight lengths of 6m and 12m for sizes up to 250mm.

TECHNICAL SPECIFICATIONS

Pressure Rating Of T-flex Pipes:

Operating pressure of T-flex pipes range between 6, 8, 10, 12.5 and 16 bar. The nominal pressure (PN) corresponds to the maximum allowable working pressure in bar for pipe at 20°C.

Operating Pressure Of T-flex Fittings:

10 bar (Compression Type)

16 bar (Compression Type) are also available against commercially feasible quantities.

8 – 16 bars (Butt Fusion Type)

Cold Bending Radii (CBR):

CBR in metres at 20°C = 22 x Outside Diameter of pipe.

Standards:

T-flex pipes for potable water application are manufactured according to latest International Standard ISO 4427: 1996, PE pipes for Water Supply specification, DIN 8074/8075 and PS – 3580: 1997.

TABLE 1: TYPICAL PHYSICAL PROPERTIES OF POLYETHYLENE (BLACK)

Properties		Typical Value*	Unit	Test Method
Density	(Compound)	950-959	Kg/m ³	ISO 1183
Melt Flow Rate	(190°C/5.0 kg)	0.3	g/10 min	ISO 1133
Tensile Stress at Yield	50 mm/min	19-21	MPa	ISO 1133
Elongation at Yield		9	%	ISO 527-2
Elongation at Break		>350	%	ISO 527-2
Charpy Impact Strength, notched	0°C	14	kJ/m ²	ISO 179/1eA
Carbon Black Content		≥2	%	ASTM D 1603
Brittleness Temperature		<-70	°C	ASTM D 746
ESCR	10% Igepal, F ₆₀	>10000	h	ASTM D 1693-A
Thermal Stability	210°C	>15	Min	EN 728

* The above given data is valid for PE 80. Pipes and fittings of PE 100 can also be supplied against specific requirements.

*Data should not be used for specification work. Dadex Technical section should be consulted for specific operational conditions with respect to pressure, temperature and fluid concentration prior to specifying the product.

Dadex Eternit Limited

Dadex House, 34-A/1, Block 6, P.E.C.H.S., Shahrah-e-Faisal, P.O. Box 20040, Karachi 75400 - Pakistan
UAN: (021) 111 000 789, Email: info@dadex.com

For more information log on to www.dadex.com or contact a Dadex office near you:

HYDERABAD: Tel: (0223) 880613, Email: hyderabad@dadex.com.pk **ISLAMABAD:** UAN: (051) 111 000 789, 4440428, 4440496, Email: islamabad@dadex.com.pk
LAHORE: UAN: (042) 111 000 789, 5760735-36, 5712169, Email: lahore@dadex.com.pk **MULTAN:** Tel: (061) 4545259, Email: multan@dadex.com.pk
FAISALABAD: Tel: (041) 8861981, Email: faisalabad@dadex.com.pk **PESHAWAR:** Tel: (091)2212214, Email: peshawar@dadex.com.pk **QUETTA:** Tel: (081) 2446701, Email: quetta@dadex.com.pk **SUKKUR:** Tel: (071) 5616349, Email: sukkur@dadex.com.pk

Note: All information contained in this literature is given in good faith. The user should, however, check that the product is suitable in the application for which it shall be used. Please ensure compliance with all health and safety requirements. Whilst continuing its programme of continuous development, Dadex reserves the right to modify or extend any published information without any prior notification. No responsibility can be accepted for any error, omissions or incorrect assumptions.

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