



## Ductile cast iron pressure fittings

Complete range for almost every  
application field

# Düker fittings made of cast iron – leak-proof,

Due to its outstanding material features such as solidity, toughness, good corrosion resistance, remarkable high pressure resistance and damping capacity, cast iron is an essential component of industrial products and basis of Düker's product range for water and gas supply.

Longevity, safety, good formability as well as the economic efficiency make this material unique, indispensable and particularly suitable for the transport of the precious element – water.

To benefit from this valuable element as drinking water or sewage it must be transported safe and without losses. Pipeline systems, made of materials which ensure reliability, no leakage and safe operation are necessary for this purpose.



Ductile cast iron, a special form of cast iron, also called spheroidal cast iron, is up to the standard and exceed it with further positive material properties, such as durability and economic efficiency. For us the best material for the application in supply lines.



# safe and cost-effective

## Manifold application

A significant advantage of ductile pipeline components by Düker is their wide field of application: acidic, strongly lime-solving waters up to sulphuric rich waters. They are also resistant to biogenous sulphuric acid attacks.

## Ductile fittings are suitable for:

- Potable water
- Sewage pressure – and gravity pipelines in water protection zones II and III
- Industrial sewage pipelines
- Culverts
- Bridge pipelines
- Transport- and distribution pipelines for irrigation systems
- Transport of sea water

## What means ductile?

Ductile cast iron is a malleable material. Excessive stress will be relieved by elastic deformation and does not result in fractures.

Without special treatment the carbon is placed in the material in form of flaked graphite (grey cast iron). The positive properties of ductile (malleable) cast iron for construction of pipelines are achieved by a special magnesium treatment of the liquid iron, resulting in a spherical inclusion of the carbon. This form of graphite advances the elongation and increases the tensile strength of the material.

The results are fittings, withstanding highest stress and almost every occurring soil- and traffic loads.

## Surface protection

Now as before corrosion is the main cause of pipeline damages. Different types of soil and variations of water qualities are placing high levels for surface protection. Effective and long-lasting surface protection means being able to withstand any given situation and, as a result, assures protection against corrosion. Düker overcomes this problem by providing adapted and application-oriented linings and coatings. With the coating variety, consisting of cement-mortar, diversified special-coatings (on request), hot melting epoxy powder and in particular enamel finishes - as the best possible surface protection – Düker ensures a permanent corrosion protection for its fittings.



# Restrained connected with thrust-resisting joints

## Socket systems – economic and efficient

Our product line includes a various range of flange and socket fittings with adapted joint systems.

Besides the conventional flanged joints, socket systems offer convincing technical and economic advantages. Time, costs and material are saved without threading of safe and tight pipe connections.

Commencing with bolted-gland sockets through to screw-gland sockets to TYTON® and Novo sockets, today professional socket designs are offered for a large number of application fields. The thrust-resisting joint systems by Düker make a considerable contribution for restrained connections in order to ensure leak-proof pipelines.



# nt systems by Düker

## Suitable systems for any range of application

With the thrust-resisting joint systems Düker **SMU**, Düker **SPEZIAL** Tyton **SIT®**, **TYTON SIT PLUS®**, Novo **SIT®** and Novo **GRIP® II**, Düker offers a range of joint systems, which allow in almost every field of application a suitable restrained connection.

Consequently we recommend the screw-gland socket connection with Düker **SMU** (DN 40 – 65, PN < 16) or Düker **SPEZIAL** (DN 80 - 400, PN < 16) for the repairing of grey cast iron pipelines with current ductile pipe materials.

For inner town areas and trunk lines Düker offers the **TYTON®**- or Novo plug-in socket systems in

combinations together with the restraining systems Tyton **SIT®**, **TYTON SIT PLUS®** or Novo **SIT®**.

Whereas Tyton **SIT®** is applied in the range from DN 80 up to DN 400 for nominal pressures up to PN 10/16, the system **TYTON SIT PLUS®** extends the field of use with higher pressure rates up to DN 600.

Novo **SIT®** is the right connection for nominal diameters from DN 80 up to DN 1.000 and nominal working pressures up to PN 40 (on request).



## Novo-socket technology – one for all

The socket design of Novo **SIT®** (for metallic pipe connections) is also base for the thrust-resisting joint system Novo **GRIP® II** for PE-HD-pipelines.

By separating both functions, sealing and locking, due to design of the Novo **SIT®** socket system and by using the appropriate thrust-resisting rings, it is possible to connect different pipe materials leak-proof and safe.

The application field of Novo **GRIP® II** is for PN 10/16 and for PEHD-diameters from 90 - 225.



# Socket and flange fittings

With our wide and varied range of fittings in accordance with DIN EN 545 we offer the most suitable solution for almost all applications, completed with our special fittings.

In addition with the thrust-resisting joint systems developed by Düker, for example Düker SMU, Düker SPEZIAL, Tyton SIT®, TYTON SIT PLUS®, Novo SIT® and Novo GRIP® you can be sure to have safe and reliable pipe connections.

## Socket fittings\*

DN	40	50	65	80	100	125	150	200	250	300	350	400	500	600	700	800	900	1000	1200	
E	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•				
EN				•	•		•	•												
EQ	•			•	•															
EU	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MK 11°- 45°	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
MMK 11°- 45°	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MMQ	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MQ	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
P	•	•		•	•	•	•	•	•	•	•	•	•							
U	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

## Flange fittings

DN	40	50	65	80	100	125	150	200	250	300	350	400	500	600	700	800	900	1000	1200	
F	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
FF	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
FFK 11°- 45°	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
N	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•
Q	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
X	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Conversion flange				•																
Single flange bell	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

\*Please note, that we offer our socket fittings to choice with bolted-gland, screw-gland, TYTON® or Novo sockets. Please get in touch with us. Our consultancy team will be pleased to answer all your questions.

# KS fittings

## KS fittings

DN <sub>1</sub> DN <sub>2</sub>	50		65			80				100					125						
	40	50	40	50	65	40	50	65	80	40	50	65	80	100	40	50	65	80	100	125	
E-KS		•			•				•					•						•	
EN-KS									•					•							
F-KS		•			•				•					•						•	
MMA-KS	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MMB-KS		•		•	•		•	•	•		•	•	•	•		•	•	•	•	•	
MMI-KS		•			•				•					•						•	
MMR-KS				•			•	•			•	•	•					•	•		

DN <sub>1</sub> DN <sub>2</sub>	40		150					200						250						
	50	65	80	100	125	150	40	50	80	100	125	150	200	40	80	100	125	150	200	250
E-KS						•							•							•
EN-KS						•														
F-KS						•							•							•
MMA-KS	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•
MMB-KS		•	•	•	•	•	•		•	•	•	•	•		•	•	•	•	•	•
MMI-KS						•							•							•
MMR-KS			•	•	•					•	•				•	•	•	•		

DN <sub>1</sub> DN <sub>2</sub>	300						400							
	80	100	150	200	250	300	80	100	150	200	250	300	350	400
E-KS						•								•
EN-KS														
F-KS						•								•
MMA-KS	•	•	•	•	•	•	•	•	•	•				•
MMB-KS														
MMI-KS						•								
MMR-KS														

For technical details please request for our detailed fitting catalogue as manual or CD.



E-KS fitting

# Socket and flange fittings with reduction

## Socket fittings\* with reduction

DN <sub>1</sub> DN <sub>2</sub>	40	50		65			80				100					125					150						
	40	40	50	40	50	65	40	50	65	80	40	50	65	80	100	40	50	65	80	100	125	40	50	65	80	100	125
A	•	•	•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B	•								•					•	•				•	•	•				•	•	•
MMA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MMB	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MMR		•		•	•		•	•	•		•	•	•	•					•	•	•			•	•	•	•

DN <sub>1</sub> DN <sub>2</sub>	400								500								600								1000					
	80	100	150	200	250	300	350	400	80	100	150	200	250	300	350	400	500	80	100	150	200	250	300	350	400	500	600	100	150	200
A								•																						
B																														
MMA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MMB	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MMR				•	•	•	•					•	•	•	•							•	•	•	•					

## Flange fittings with reduction

DN <sub>1</sub> DN <sub>2</sub>	40	50		65			80				100					125					150						
	40	40	50	40	50	65	40	50	65	80	40	50	65	80	100	40	50	65	80	100	125	40	50	65	80	100	125
FFR		•		•	•		•	•	•		•	•	•	•		•	•	•	•		•	•	•	•	•	•	•
FFRe							•	•	•		•	•	•			•	•	•	•		•	•	•	•	•	•	•
T		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TT	•		•		•	•	•		•					•	•					•	•			•	•	•	•

DN <sub>1</sub> DN <sub>2</sub>	400								500								600								1000				
	80	100	150	200	250	300	350	400	80	100	150	200	250	300	350	400	500	80	100	150	200	250	300	350	400	500	600	100	150
FFR			•	•	•	•	•							•	•	•	•						•	•	•	•			
FFRe			•	•	•	•	•						•	•	•	•							•	•	•	•			
T	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TT	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

\*Please note, that we offer our socket fittings to choice with bolted-gland, screw-gland, TYTON® or Novo sockets. Please get in touch with us. Our consultancy team will be pleased to answer all your questions.

150		200				250				300				350														
5	150	40	50	80	100	125	150	200	40	80	100	125	150	200	250	80	100	150	200	250	300	80	100	150	200	250	300	350
	•		•	•	•		•	•								•	•	•										
	•			•	•		•	•		•			•		•		•	•	•		•							
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
				•	•	•	•			•	•	•	•	•		•	•	•	•					•	•	•	•	

700			800					900				1000			1200															
50	300	400	500	600	700	100	200	300	400	500	600	700	800	250	400	600	700	800	900	600	700	800	900	1000	600	700	800	900	1000	1200
																				•										
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
•	•	•	•	•	•		•	•	•	•	•	•	•		•				•	•	•	•								
	•	•	•						•	•	•				•	•	•				•				•			•		

150		200				250				300				350														
5	150	40	50	80	100	125	150	200	40	80	100	125	150	200	250	80	100	150	200	250	300	80	100	150	200	250	300	350
			•	•	•	•	•			•	•	•	•	•		•	•	•	•	•					•	•	•	•
				•	•	•	•				•	•	•	•			•	•	•	•						•	•	•
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	•		•	•	•		•	•		•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

700			800					900			1000				1200															
0	200	250	300	400	500	600	700	100	200	300	400	500	600	700	800	600	700	800	900	1000	600	700	800	900	1000	600	700	800	900	1000
				•	•	•					•	•	•	•		•	•	•		•	•	•	•					•		
				•	•	•						•	•	•									•							
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	•	•		•	•		•																							

# Special fittings

## Special fittings

DN <sub>1</sub> DN <sub>2</sub>	80				100					125					150					4				
	40	50	65	80	40	50	65	80	100	40	50	65	80	100	125	150	40	50	65		80	100	125	150
MMC				•				•	•					•	•					•	•	•		
Hatchbox				•					•						•								•	

DN <sub>1</sub> DN <sub>2</sub>	400								500								80	100	150			
	80	100	150	200	250	300	350	400	80	100	150	200	250	300	350	400				500		
MMC		•	•	•		•		•				•	•			•	•					•
Hatchbox								•									•					

## Certified for highest demands

Product quality and customer satisfaction always have top priority at Düker. In 1993 Düker introduced a modern quality management system in accordance with DIN EN ISO 9001 which is certified by the Federal German Testing and Approval Authorities (TÜV). Meanwhile Düker is certified according to ISO 9001:2000.

Periodic surveillances, internal and external audits as well as the motivation of our employees ensure that the quality management system as an integral component of our entire organisation will be constantly further developed.

For the future this means: We will always supply products with a convincing high durability and conform to the newest state of the art.



200						250						300						350								
0	50	80	100	125	150	200	40	80	100	125	150	200	250	80	100	150	200	250	300	80	100	150	200	250	300	350
			•	•	•	•			•			•	•		•	•	•	•	•							•
						•						•							•							

  

600							700							800									
0	250	300	350	400	500	600	100	150	200	250	300	400	500	600	700	100	200	300	400	500	600	700	800
•				•		•			•			•	•		•		•	•	•	•			•

### Our employees for you



Technical advancements, the research into and testing of new materials as well as extending the range of applications improve our efficiency and establishment in various markets – also thanks to the service we provide and the support we give to our customers.



Marketing, sales and production are working hand in hand, in order to satisfy the needs of each individual customer: whether from the desk, by telephone, via internet or electronic media, at trade fairs and exhibitions, with our information material or personal visits on location...



A challenge, we face every day and helps us to develop sophisticated solutions.

We are looking forward to answering your questions and being available to you with competent consultancy and project realisation. Just give us a call or contact our specialist dealer.

FITTINGS AND VALVES

DRAINAGE TECHNOLOGY

ENGINEERING

GLASS LINING TECHNOLOGIES

JOBGING FOUNDRY

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