

PIPE COUPLINGS













NORMA FGR

Infrastructure Connectors | Pipe Connections

KEKALBOLEH SDN BHD
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Excellent coupling for all kinds of welding free connections

Connected pipes			Metal + metal	Plastic + plastic	Metal + plastic	Repair of metal or plastic
Axial non restraint						
Type	Flex 		26.9 - 168.3 mm	180.0 - 1219.2 mm	26.9 - 168.3 mm	180.0 - 1219.2 mm
Material	W2, W4, W5					
Material sealing sleeve	EPDM, NBR		16 bar	16 - 3 bar	16 / 10 bar	16 / 10 - 4 bar
Type	Flex E 		26.9 - 168.3 mm	180.0 - 1219.2 mm	26.9 - 168.3 mm	180.0 - 1219.2 mm
Material	W2, W4, W5					
Material sealing sleeve	EPDM, NBR		16 bar	13.5 - 2 bar	16 / 10 bar	16 / 10 - 4 bar
Type	FlexGrip 		26.9 - 168.3 mm	180.0 - 406.0 mm		180.0 - 406.0 mm
Material	W2, W4, W5				26.9 - 168.3 mm	16 / 10 - 4 bar
Material sealing sleeve	EPDM, NBR		16 bar	16 - 3 bar	16 / 10 bar	
Type	FlexGrip E 		26.9 - 168.3 mm	180.0 - 406.0 mm		180.0 - 406.0 mm
Material	W2, W4, W5				26.9 - 168.3 mm	16 / 10 - 4 bar
Material sealing sleeve	EPDM, NBR		16 bar	10 - 2 bar	16 bar	
Type	Rep E					35.0 - 1219.2 mm
Material	W5					16 - 4 bar
Material sealing sleeve	EPDM, NBR					
Type	FARC					59.0 - 407.0 mm
Material	W4					16 - 10 bar
Material sealing sleeve	EPDM, NBR					

RA	RA 26.9 - 168.3 mm	RA > 180 mm
EPDM	-30°C - +125°C	-20°C - +80°C
NBR	-20°C - +80°C	-20°C - +80°C

Available certifications



ABS



Bureau Veritas



DNV-GL



LRS








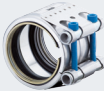


CLASS NK



RINA

Compact, economical and reliable range

	Metal + metal	Plastic + plastic	Metal + plastic	Repair of metal or plastic
Axial restraint				
Grip 		26.9 - 168.3 mm	180.0 - 406.0 mm	
W2, W4, W5		16 bar	16 - 4.5 bar	
EPDM, NBR, FKM				
Grip E 		26.9 - 168.3 mm	180.0 - 406.0 mm	
W2, W4, W5		16 bar	10 - 2.5 bar	
EPDM, NBR				
Combi Grip				200.0 - 406.0 mm
W5				16 - 6 bar
EPDM, NBR				
Combi Grip E				38 - 168.3 mm
W5				16 / 10 bar
EPDM, NBR				
Plastic Grip			200.0 - 406.4 mm	
W5			16 - 6 bar	
EPDM, NBR				
Plastic Grip E			40.0 - 168.3 mm	
W5			16 / 10 bar	
EPDM, NBR				

 Flame protection available

* See type approvals for maximum dimension and pressure ratings

** Metal = Grip side, Plastic = Flex side



RMRS



KRS



NSF



CCS



BWB



PRS

NORMACONNECT™ FGR benefits



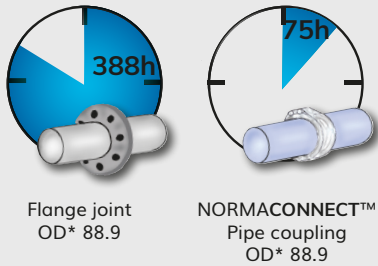
NORMACONNECT™ FGR pipe coupling is a reliable connection for thick and thin-walled pipes which conforms to latest DIN Standard 86128. It is an economical alternative to conventional pipe joining techniques for both plastic and metal pipes, due to short assembly times without the necessity of prior pipe alignment or treatment of pipe ends. In addition, the pipe couplings require no special tools and they are reusable.

FGR pipe couplings feature high adaptability and flexibility, ensure perfect connections in various applications such as oil and gas, shipbuilding, power stations, pipeline construction, mining, mechanical engineering, civil engineering, filters and in water technology. Feed and return lines for liquid, gas and solids are joined quickly, easily and safely using FGR pipe couplings.

✓ Time saving

- No welding
- No necessity for prior pipe alignment or treatment of pipe ends
- Up to 80% time saving
- Cost effective alternative

(for 1,000 pcs)



Flange joint
OD* 88.9

NORMACONNECT™
Pipe coupling
OD* 88.9

✓ Compensation of pipe tolerances

- Compensates for pipe gaps up to 65 mm
- Compensates for axial movements up to 7.5 mm
- Compensates for misalignment up to 3 mm

✓ Angular deflection

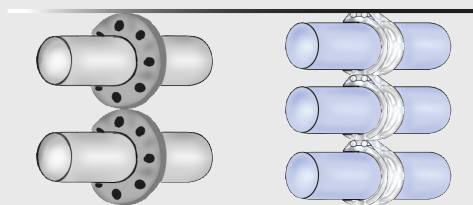
Compensates for angular deflection up to +/- 2° in total

✓ Practical use

- Detachable connection
- Re-usable

✓ Space saving

- Requires less space than conventional joining methods like flanges
- Can be installed in areas which are hard to access

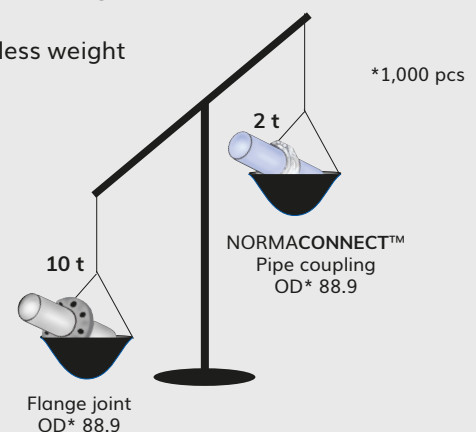


Flange joint
OD* 88.9

NORMACONNECT®
Pipe coupling
OD* 88.9

✓ Weight saving

70% less weight



Flange joint
OD* 88.9

NORMACONNECT™
Pipe coupling
OD* 88.9