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FLEXIBLE COUPLING (PAGE 1/2)

FM APPROVED

DESCRIPTION

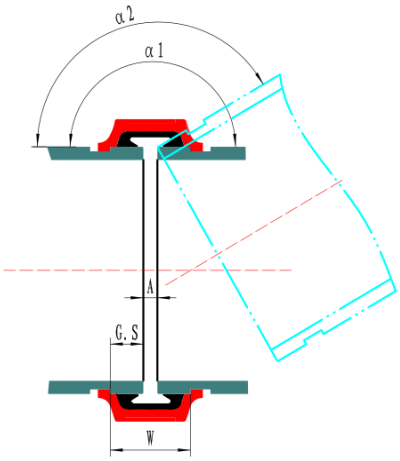
Flexible couplings are designed to transmit torque while permitting some radial, axial and angular misalignement. Flexible couplings can accomodate angular misalignement up to a few degrees and some parallel misalignement.

Sizes available: 1" - 10"
Working pressure: 300 PSI / 2068 Kpa

MATERIAL SPECIFICATIONS

- **Housing:**
  Ductile iron conform to ASTM A536
- **Coating:**
  □ Galvanized
  □ Red paint coating: RAL 3000
- **Rubber gasket:**
  EPDM gaskets dispose of the international certifications and have undergone the aging test at 110°C (230°F) during a period of 45 days (1080 hours) and the frozen test at -40°C (-40°F) during a period of 4 days (96 hours).
  Working temperature gaskets: -34°C to 110°C (-29°F to 230°F).
- **Bolts and Nuts:**
  Medium carbon steel, threaded BSPT, zinc electroplated, quenched and tempered.

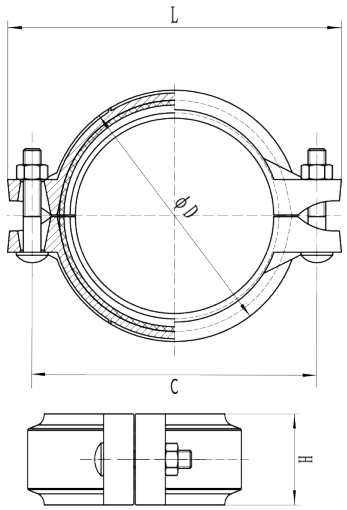
DEFLECTION ANGLE AND GAP BETWEEN TWO PIPES



Reference		Size	O.D.	DN	W	G.S (mm)			Gap between two pipes (A) (mm)		Max deflection angle (mm)
Red	Galva	Inch	mm	mm	mm	Basic	Max.	Min.	Max.	Min.	
GKFR	GKFG	1	33,7	25	34	15,88	16,64	15,12	3,76	0,72	2,3
GKFR	GKFG	1¼	42,4	32	34	15,88	16,64	15,12	3,76	0,72	2,3
GKFR	GKFG	1½	48,3	40	34	15,88	16,64	15,12	3,76	0,72	2,3
GKFR	GKFG	2	60,3	50	35	15,88	16,64	15,12	4,76	1,72	2,3
GKFR	GKFG	2½	76,1	65	35	15,88	16,64	15,12	4,76	1,72	1,9
GKFR	GKFG	3	88,9	80	35	15,88	16,64	15,12	4,76	1,72	1,6
GKFR	GKFG	4	114,3	100	36	15,88	16,64	15,12	5,76	2,72	1,6
GKFR	GKFG	5	139,7	125	37	15,88	16,64	15,12	6,26	3,22	1,3
GKFR	GKFG	6	168,3	150	38	15,88	16,64	15,12	7,26	4,22	1,1
GKFR	GKFG	8	219,1	200	44	19,05	19,81	18,29	6,92	3,88	0,8
GKFR	GKFG	10	273,0	250	47	19,05	19,81	18,29	10,42	7,38	0,7

The actual gap between the pipes may change according to the actual cut and roll groove.
Extra degrees of deflection angle are allowed for flexible couplings, but when the flexible coupling is assembled, the value must be no more than the maximum degree.

DIMENSIONS



Reference		Size	O.D.	DN	Nominal dimensions				Bolt Size (d1 x L)	Nuts	Socket wrench	Weight
Red	Galva	Inch	mm	mm	ØD mm	L mm	H mm	C mm		mm	mm	kg
GKFR	GKFG	1	33,7	25	55	97	45	73	M10*40	21,8	15	0,42
GKFR	GKFG	1¼	42,4	32	63,5	107,5	45	84	M10*50	21,8	15	0,48
GKFR	GKFG	1½	48,3	40	69	114	45	90	M10*50	21,8	15	0,53
GKFR	GKFG	2	60,3	50	83,6	124	46	102	M10*60	21,8	15	0,68
GKFR	GKFG	2½	76,1	65	98	139	46	115	M10*60	21,8	15	0,80
GKFR	GKFG	3	88,9	80	114	156	46	132	M10*60	21,8	15	0,95
GKFR	GKFG	4	114,3	100	142	189	50	162	M12*70	26,0	18	1,44
GKFR	GKFG	5	139,7	125	170	222	50	192	M12*70	26,0	18	1,91
GKFR	GKFG	6	168,3	150	198	251	50	222	M12*70	26,0	18	2,10
GKFR	GKFG	8	219,1	200	260	322	58	282	M16*85	34,5	24	3,77
GKFR	GKFG	10	273,0	250	319	393	64	352	M20*110	42,8	30	6,54

General notes:
- Pressure ratings listed are CWP (cold working pressure) or maximum working pressure within the service temperature range of the gasket used in the coupling. This rating may occasionally differ from maximum working pressure listed and/or approved by UL and/or FM, as testing conditions and test pipes differ. For more information, please contact info@profittings.eu.
- Maximum working pressure and end loads listed are total of internal and external pressures and loads, based on standard weight (ANSI) steel pipe and standard roll or cut groove, in accordance with Profit specifications. For more information, please contact info@profittings.eu.
- For one time field test only, the maximum joint working pressure may be increased one and a half times the figure shown.
- **Warning**: Piping systems must always be depressurized and drained before attempting disassembly and/or removal of any components.
- Profit reserves the right to change specifications, designs and/or standard equipment without notice and without incurring in any obligations.

Revision Date: April 2014

FLEXIBLE COUPLING (PAGE 2/2)

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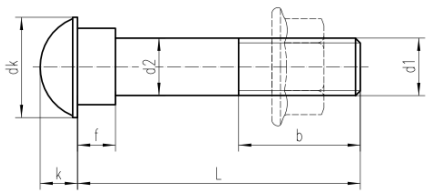
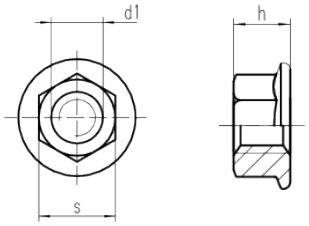


	DN 25	DN 32-40	DN 50	DN 65-80-100	DN 125-150	DN 150	DN 200	DN 250
d1	M10	M10	M10	M10	M12	M14	M16	M20
d2	9	9	9	9	11	12	15	18
b	31	32	38	38	41	48	47	65
f	5	5	5	5	6	4	8	10
Lg	40	55	60	60	70	85	85	110



d1	M10	M12	M14	M16	M20
h	10	12	13	15	17
s	15	18	21	24	30

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