

Angle-pad couplings provide a full rigid connection of grooved pipes and/or grooved fittings. The coupling has been designed to achieve angular and axial stiffness by firmly clamping in the groove base. Small internal dents give an anti-torsional resistance and the angled bolt-pads guarantee rigidity under all pipe and groove conditions.

Reference		Nominal size		Pipe Ø O.D.	Rigid coupling dimensions				Bolt size	Socket wrench	Torque	Weight	Marking
Red	Galva	NPS inch	DN mm	mm	Ø mm	L mm	H mm	C mm	d1xL	mm	Nm	kg	
GKSHR	GKSHG	1	25	33,7	56	96	47	74	M10x60	15	44-45	0,50	GKSH
GKSHR	GKSHG	1¼	32	42,4	64	106	47	83	M10x60	15	44-45	0,62	GKSH
GKSHR	GKSHG	1½	40	48,3	69	113	47	90	M10x60	15	44-45	0,65	GKSH
GKSHR	GKSHG	2	50	60,3	88	122	47	100	M10x60	15	44-45	0,85	GKSH
GKSHR	GKSHG	2½	65	76,1	101	142	47	116	M12x70	18	90-100	1,10	GKSH
GKSHR	GKSHG	3	80	88,9	116	158	47	131	M12x70	18	90-100	1,23	GKSH
GKSHR	GKSHG	4	100	114,3	144	194	52	162	M12x70	18	90-100	1,82	GKSH
GKSHR	GKSHG	5	125	139,7	171	230	52	194	M16x85	24	200-230	2,60	GKSH
GKSHR	GKSHG	6	150	168,3	200	256	53	222	M16x85	24	200-230	2,95	GKSH
GKSHR	GKSHG	8	200	219,1	263	334	63	290	M20x120	30	270-300	6,80	GKSH
GKSHR	GKSHG	10	250	273,0	326	404	65	/	M22x190	32	270-300	/	GKSH*
GKSHR	GKSHG	12	300	323,9	381	468	65	/	M22x190	32	270-300	/	GKSH*

* Not VdS & LPCB approved 

Material specifications

Housing: ductile iron conform to ASTM A536 GR 65-45-12

Coating:

- Hot dip galvanised
- Red paint coating RAL 3000, EPD Epoxy coating

Bolts and nuts: medium carbon steel, zinc electroplated, quenched and tempered

Rubber gasket: EPDM gaskets dispose of the international certifications and have undergone the aging test at 110°C/230°F for a period of 45 days/1080 hours and the freezing test at -40°C/-40°F for a period of 4 days/96 hours.

Working pressure

3,50 MPa / 35,0 bar / 500 psi.

1) VdS: 1,60 MPa / 16,0 bar / 232 psi.

2) LPCB: 2,07 MPa / 20,7 bar / 300 psi.

3) UL:

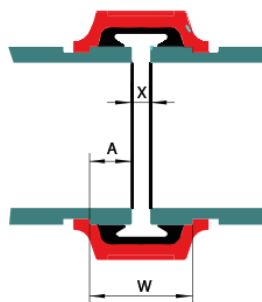
1" to 5": 3,50 MPa / 35,0 bar / 500 psi.

6" to 8": 3,10 MPa / 31,0 bar / 450 psi.

10" & 12": 2,76 MPa / 27,6 bar / 400 psi.

General notes:

- Pressure ratings listed are CWP (cold working pressure) or MWP (maximum working pressure) at a maximum service temperature of 50°C. 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@pipinglogistics.eu.
- Maximum working pressure listed is the total of internal and external pressures, based on standard weight (ANSI) steel pipe and standard roll or cut groove, in accordance with Profit specifications. For more information, please contact info@pipinglogistics.eu.
- For one time field test only, the maximum joint working pressure may be increased by 150% the figure shown.
- Warning: Piping systems must always be depressurised and drained before attempting disassembly and/or removal of any components.
- Piping Logistics reserves the right to change specifications, designs and/or standard equipment without notice and without incurring in any obligations.
- Profit red coated products are intended for piping with indoor application (EN 12944-2 corrosivity category C1 & C2). For outdoor installations near the sea (corrosivity category C3) we advise the use of our hot dip galvanised couplings and fittings. For application in corrosivity category C4 (higher salinity climate) or higher, please contact info@pipinglogistics.eu.
- We advise to always store our products in closed and dry environments.
- Independent technical datasheet for bolts and nuts and rubber gaskets.



Reference		Nominal size		Pipe Ø O.D.	W	A mm			X mm	
Red	Galva	NPS inch	DN mm	mm	mm	basic	max.	min.	max.	min.
GKSHR	GKSHG	1	25	33,7	34	15,9	16,6	15,1	-	0
GKSHR	GKSHG	1¼	32	42,4	34	15,9	16,6	15,1	1,6	0
GKSHR	GKSHG	1½	40	48,3	34	15,9	16,6	15,1	1,6	0
GKSHR	GKSHG	2	50	60,3	35	15,9	16,6	15,1	1,7	0
GKSHR	GKSHG	2½	65	76,1	35	15,9	16,6	15,1	1,7	0
GKSHR	GKSHG	3	80	88,9	35	15,9	16,6	15,1	1,7	0
GKSHR	GKSHG	4	100	114,3	36	15,9	16,6	15,1	4,1	0
GKSHR	GKSHG	5	125	139,7	37	15,9	16,6	15,1	4,1	0
GKSHR	GKSHG	6	150	168,3	38	15,9	16,6	15,1	4,1	0
GKSHR	GKSHG	8	200	219,1	44	19,1	19,8	18,3	3,2	0
GKSHR	GKSHG	10	250	273,0	47	19,1	19,8	18,3	4,5	0
GKSHR	GKSHG	12	300	323,9	47	19,1	19,8	18,3	4,5	0

THE ACTUAL GAP BETWEEN PIPES MAY CHANGE ACCORDING TO THE ACTUAL CUT AND ROLL GROOVE

General notes:

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- Maximum working pressure listed is total of internal and external pressures based on standard weight (ANSI) steel pipe and standard roll or cut groove in accordance with Profit specifications. For more information, please contact info@pipinglogistics.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 depressurised and drained before attempting disassembly and/or removal of any components.
- Piping Logistics reserves the right to change specifications, designs and/or standard equipment without notice and without incurring in any obligations.
- Profit red coated products are intended for piping with indoor application (EN 12944-2 corrosivity category C1 & C2). For outdoor installations near the sea (corrosivity category C3) we advise to use our hot dip galvanised couplings and fittings. For application in corrosivity category C4 (higher salinity climate) or higher, please contact info@pipinglogistics.eu.
- We strongly advise to always store our products in closed and dry warehouses.
- Independent technical datasheet for bolts and nuts and rubber gaskets.

MINIMUM PIPE WALL THICKNESS (VdS)

Allowable minimum pipe wall thickness combinations with **PROFIT - coupling GKSH** and rolled grooves.

Nominal pipe size		Minimum thickness MPW = 12,5 barg	Minimum thickness MWP = 16 Barg
NPS (DN)		mm	mm
1	25	2,0	2,0
1¼	32	2,3	2,3
1½	40	2,3	2,3
2	50	2,3	2,3
2½	65	2,6	2,6
3	80	2,9	2,9
4	100	3,2	3,2
5	125	3,6	3,6
6	150	4,0	4,1
8	200	4,5	4,9
10	250	5,0	5,8
12	300	5,6	6,7

REVISION TABLE

Date	△	Notes
05/09/2025	A	Page 1 - Addition of the side note.

MWP= maximum working pressure

For installations within Europe (EC) please note that the minimum pipe thickness in fire sprinkler piping should be according to standard EN 12845.