

STAINLESS STEEL PIPE REPAIR CLAMP GRIP TYPE GR-S

Axially Restrained Grip Coupling · Stainless Steel 304 · Double Anchor Rings

BRAND: SW FLOW CONTROLS

SKU: SW-0088

SIZE 1/2" TO 8"

UP TO 18 BAR MARINE / 46 BAR IND.



FIG. 1 | STAINLESS STEEL PIPE REPAIR CLAMP GRIP TYPE GR-S

PRODUCT OVERVIEW

The SWBM Stainless Steel Pipe Repair Clamp Grip Type GR-S joins and repairs plain-end pipe without flanging, welding, grooving or threading. It is compact, quick to install and suitable for both high and low pressure service.

Two anchor rings with gripping teeth sit next to, but separate from, the rubber seal. As internal pressure rises the teeth engage deeper into the pipe surface, giving axial restraint against pull-out. Casing, bolts and bars are stainless steel 304.

Product type	Grip coupling, axially restrained
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Casing material	Stainless steel AISI 304
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Restraint	Double anchor rings, AISI 301
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Bolting	2 bolts, M6 to M12
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Working pressure	Up to 18 bar marine, 46 bar industrial
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Size range	1/2" to 8" (OD 21.3 to 219.1 mm)
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TECHNICAL SPECIFICATION

Casing	AISI 304	Marine burst factor	4 x working pressure
Bolts and bars	AISI 304	Industrial burst factor	1.5 x working pressure
Anchoring rings	AISI 301	Pipe end gap	5 to 20 mm
Strip insert (optional)	AISI 301	Torque	8 to 60 N.m
Seal	Rubber gasket	Pipe reference	Standard wall carbon steel
Coupling width B	61 to 142 mm	Range on enquiry	OD 21.3 to 273 mm



PRODUCT DATA SHEET

STAINLESS STEEL PIPE REPAIR CLAMP GRIP TYPE GR-S

Ref. SW-0088 | Rev. 01

BILL OF MATERIALS

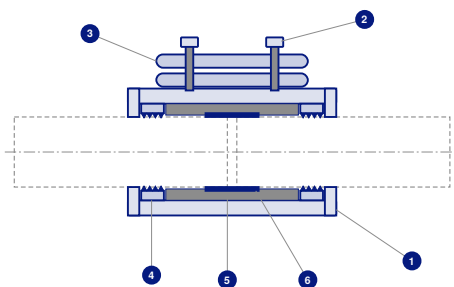


FIG. 2 | SECTIONAL ARRANGEMENT, SCHEMATIC

#	COMPONENT	MATERIAL
1	Casing	Stainless steel AISI 304
2	Bolts (2 nos.)	Stainless steel AISI 304
3	Bars	Stainless steel AISI 304
4	Anchoring ring (2 nos.)	Stainless steel AISI 301
5	Sealing gasket	Rubber, EPDM or NBR
6	Strip insert (optional)	Stainless steel AISI 301

Material set V1 shown. Casing in AISI 316L or 316Ti and strip insert in 316L / 316Ti available against enquiry. Gasket grade to be confirmed with the order.

DIMENSIONS AND WEIGHTS

SIZE	PIPE OD	CLAMP RANGE	WP MARINE	WP IND.	ΦD	B	C	GAP	GAP INSERT	TORQUE	BOLT
1/2"	21.3	20 to 22	18	46	39	61	26	5 to 8	10	8	M6 x 2
3/4"	26.9	26 to 28	18	46	43	61	26	5 to 8	10	8	M6 x 2
1"	33.7	32 to 35	18	40	50	61	26	5 to 8	10	8	M6 x 2
1.1/4"	42.4	41 to 43	18	32	61.3	61	26	5 to 8	10	15	M8 x 2
1.1/2"	48.3	47 to 49	18	32	67.2	61	26	5 to 8	10	15	M8 x 2
2"	60.3	59 to 61	18	32	79.2	76	37	5 to 10	15	10	M8 x 2
2.1/2"	76.1	75 to 77	18	32	98.2	95	41	5 to 10	25	20	M8 x 2
3"	88.9	87 to 91	18	32	111	95	41	5 to 10	25	20	M8 x 2
4"	114.3	113 to 116	16	30	136.4	95	41	5 to 10	25	25	M8 x 2
5"	141.3	140 to 143	16	25	165.4	110	54	5 to 15	35	40	M10 x 2
6"	168.3	167 to 170	16	22	189	110	54	5 to 15	35	40	M10 x 2
8"	219.1	216 to 222	10	22	250	142	80	15 to 20	40	60	M12 x 2

Dimensions in mm, pressure in bar, torque in N.m. ΦD = coupling outside diameter, B = width, C = distance between sealing slips, Gap = setting gap between pipe ends without strip insert, Gap insert = maximum gap with strip insert. Further pipe ODs from 21.3 to 273 mm and special diameters against enquiry. Dimensions are nominal and given for guidance only.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0088
Size	1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4", 5", 6", 8"
Gasket	EPDM or NBR
Strip insert	Optional, for larger pipe end gaps
Order example	SW-0088 / 3" / OD 88.9 / EPDM

Stock held in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and certification requirements.



PRESSURE AND TEMPERATURE

Marine, OD 21.3 to 108 mm	18 bar
Marine, OD 114.3 to 168.3 mm	16 bar
Marine, OD 193.7 to 273 mm	10 bar
Industrial and land based	20 to 46 bar by size

Working pressures as stated by the manufacturer, based on standard wall carbon steel pipe. Minimum burst is 4 x working pressure for marine and 1.5 x for industrial ratings. The temperature limit is governed by the gasket grade.

TYPICAL APPLICATIONS

- Water pipelines
- Gas lines
- Ship and offshore piping systems
- Joining plain-end steel pipe
- Repair of damaged pipe sections
- General industrial piping

COMPLIANCE AND QUALITY

- Casing, bolts and bars in AISI 304
- Anchoring rings in AISI 301
- Axially restrained, double anchor ring design
- Replaces flanging, welding, grooving and threading
- Separate marine and industrial pressure ratings
- Special outside diameters against enquiry

INSTALLATION AND OPERATION

- Cut the pipe ends square, deburr and clean over the coupling width
- Mark the insertion depth on each pipe end
- Slide the coupling over one pipe end, align the second pipe and centre the coupling
- Set the pipe end gap within the limit in the table
- Tighten the two bolts alternately to the torque in the table
- Pressurise slowly and check for leaks

COMPANY

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