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email: admin@hishose.com.au

INDUSTRIAL



CATALOGUE

H.I.S. HOSE

Proprietary Limited

HOSE CLAMPS & CLIPS



- *Hose Clips*
- *Hose Clamps*
- *Normaconnect*
- *Oetiker Swing Couplers*



Quality
ISO 9001

SAI GLOBAL
CERT NO QEC22270

Industrial • Hydraulics • Ducting • Pneumatics

WESTERN BRANCH

28 Spencer Street
Sunshine West Vic 3020
Tel: (03) 8311 7400
Fax: (03) 9311 2322

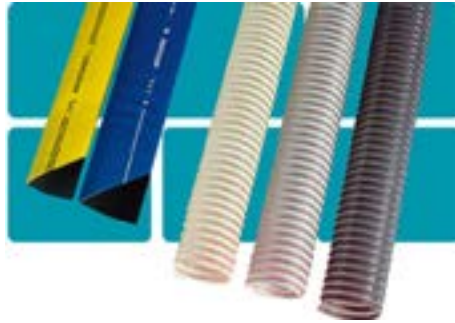
EASTERN BRANCH

73-81 Bessemer Drive
Dandenong South Vic 3175
Tel: (03) 9794 9299
Fax: (03) 9794 9992

NORTHERN BRANCH

169-171 Northbourne Rd
Campbellfield Vic 3061
Tel: (03) 9305 4600
Fax: (03) 9305 4231

Other Catalogues Available:



▶ *IPL Plastic Hose*



▶ *Barfell Plastic Hoses & Tubes*



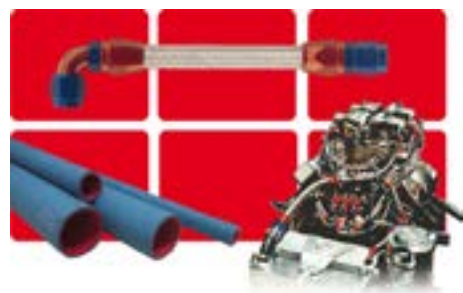
▶ *Industrial Rubber Hose*



▶ *Plastic Tubing & Recoil Hose*



▶ *Flexible Ducting*



▶ *Automotive*

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NORMA
The Connecting Professionals





NORMA - the trade name of Norma Group GMBH - manufacturers of the largest range of clips and clamping products in the world. The following pages give details on some of the products currently stocked in Australia. More detailed information is available in individual brochures on request.

WORM DRIVE HOSE CLAMPS

The **NORMA WORM DRIVE HOSE CLAMP** is a technically mature multi-application hose clamp used by the million.

Design details have been developed from practical experience:

- The asymmetric housing (1) resists twisting during tightening, due to its offset design.
- The outside edge of the screw's protective collar (2) guides the band end away from the screw head thus preventing interference with the tool during assembly. It also reduces the

risk of damage to the hose by making the end lie flat against the band.

- The short housing saddle (3) which is weld and rivet free, is keyed into the inside of the band. The smooth form evens the pressure around the periphery.
- The pressed tooth form (4) and the rounded, raised band edges prevent damage to the hose.

Each Norma worm drive hose clamp offers a very large clamping range. This means hoses with different diameters may be safely connected with one size of clamp.

Product No. W1	Product No. W4	Product No. W5	Band Width mm
W1-8-16/9	W4-8-16/9	W5-8-16/9	9
W1-12-20/9	W4-12-20/9	W5-12-20/9	9
W1-16-25/12	W4-16-25/12	W5-16-25/12	12
W1-20-32/12	W4-20-32/12	W5-20-32/12	12
W1-25-40/12	W4-25-40/12	W5-25-40/12	12
W1-30-45/12	W4-30-45/12	W5-30-45/12	12
W1-32-50/12	W4-32-50/12	W5-32-50/12	12
W1-40-60/12	W4-40-60/12	W5-40-60/12	12
W1-50-70/12	W4-50-70/12	W5-50-70/12	12
W1-60-80/12	W4-60-80/12	W5-60-80/12	12
W1-70-90/12	W4-70-90/12	W5-70-90/12	12
W1-80-100/12	W4-80-100/12	W5-80-100/12	12
W1-90-110/12	W4-90-110/12	W5-90-110/12	12
W1-100-120/12		W5-100-120/12	12
W1-110-120/12		W5-110-120/12	12
W1-120-140/12		W5-120-140/12	12
W1-120-150/12		W5-120-150/12	12
W1-140-160/12		W5-140-160/12	12
W1-150-170/12		W5-150-170/12	12
W1-160-180/12		W5-160-180/12	12
W1-180-200/12			12
W1-210-230/12			12
W1-230-250/12			12
W1-260-280/12			12
W1-280-300/12			12

MATERIAL TYPES:

W1 Alu-zinc band and housing, mild steel screw. clear chromate coating.

W4 Non-magnetic stainless steel throughout (AISI 304)

W5 High grade non-magnetic stainless steel throughout (AISI 316)

Also available in:

W2 Band & housing stainless steel (AISI 430) Screw Mild Steel Zinc Plated & clear chromate

W3 Stainless steel throughout (AISI 430)

SW6/7 6-7MM COMBINATION FLEXIDRIVER

The Norma screw is equipped with a combination head (hexagon with slot and cruciform) so that assembly is easy with a spanner or a bladed or cross-headed screwdriver.

For professional assembly we would recommend the use of the Norma Flexidriver. This socket screwdriver has a flexible shaft and enables secure assembly in places where access is difficult.



Product No. SW6/7

EXTRA-HIGH TORQUE HOSE CLAMPS

The **NORMA TYPE SGS EXTRA-HIGH TORQUE ALL-STAINLESS HOSE CLAMP** is the strongest in the Norma worm drive range. It is therefore ideally suited to heavy duty and high pressure applications where a very high tightening torque is required and in particular where wire reinforced, silicone, plastic or tough rubber hose are employed. The Norma Extra High Torque clamp is constructed of four components, all in stainless steel. The wide profile housing is permanently riveted to the saddle in four places (1) ensuring that the 8 screw threads are always engaged in the band slots (2). The **16mm wide flexible band** is 0.7mm thick and the screw has an

8mm A/F hex head combined with a screwdriver slot. This design produces a considerable **maximum recommended tightening torque** of 17.00 Nm - **about twice that of a conventional worm drive hose clip.**

A major feature is the **one piece extended band liner** (3) to protect the hose from damage caused by extrusion and shearing of the hose through worm drive slots.

An advantage over heavy duty bolt-type clamps is the wide clamping range - approximately 20mm for each clamp.

NORMA



Material Type

W4 Non-magnetic stainless steel throughout (AISI 304)

Product No.	Clamping Range mm
W4-GS25-45/16	25-45
W4-GS32-54/16	32-54
W4-GS45-67/16	45-67
W4-GS57-79/16	57-79
W4-GS70-92/16	70-92
W4-GS83-105/16	83-105
W4-GS95-118/16	95-118
W4-GS108-130/16	108-130
W4-GS121-143/16	121-143
W4-GS133-156/16	133-156
W4-GS146-168/16	146-168
W4-GS159-181/16	159-181
W4-GS172-194/16	172-194
W4-GS184-206/16	184-206
W4-GS197-219/16	197-219
W4-GS210-232/16	210-232

HOSE CLAMP CROSS REFERENCE CHART

Norma Part No. (diam range)	Universal Part No.	U.S. Part No.
8-16	000/M00	004
12-20	00	006
16-25	0	008/010
20-32	1A	012
25-40	1	016
30-45	1x	020
32-50	2A	024
40-60	2/2x	028/032
50-70	3	036
60-80	-	040/044
70-90	4	048
80-100	-	052/056
90-110	5	060
100-120	-	064
110-130	6	072
120-140	-	080
130-150	-	084/088
140-160	7	096
150-170	-	104
160-180	8	-
180-200	9	116
210-230	10	136
230-250	11	152
260-280	12	-
280-300	13	-



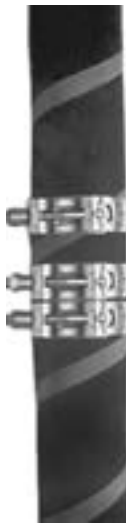
HOSE CLAMPS & CLIPS

EXTRA HIGH TORQUE
HOSE CLAMPS



HOSE CLAMPS & CLIPS

HEAVY DUTY HOSE CLAMPS



HEAVY DUTY HOSE CLAMPS

GBS HEAVY DUTY HOSE CLAMPS are designed for difficult applications and for those requiring a high clamping force. GBS clamps are particularly suitable for heavy hoses, and hoses with plastic or wire reinforcement and/or high Shore hardness. They are able to work with wide tolerances. The rolled edges of the band prevent the hose being damaged. Maximum clamping force is provided by the flexible stainless steel band material.

The GBS range of high quality clamps has set new standards in this competitive section of industrial clamping. GBS clamps are suited for high pressure, force and suction hose clamping on municipal and sewage vehicles, off-road construction machinery, heavy vehicles etc. The stainless materials used in the assembly of the GBS Type W4 clamp make it ideal for the transfer of fluids in feed pipes for the food, drink and chemical industries.

MATERIAL TYPES

- W1** Zinc plated mild steel throughout
- W2** Band & housing in stainless steel (AISI 430Ti/430C6) bolt & inserts mild steel zinc plated yellow chromate
- W4** Non-magnetic stainless steel throughout (AISI 304)

Product No. W2	Product No. W4	Clamping Range mm	Band Width mm
W2-GBS18/18	W4-GBS18/18	17-19	18
W2-GBS20/18	W4-GBS20/18	10-21	18
W2-GBS22/18	W4-GBS22/18	21-23	18
W2-GBS24/18	W4-GBS24/18	23-25	18
W2-GBS26/18	W4-GBS26/18	25-27	18
W2-GBS28/18	W4-GBS28/18	27-29	18
W2-GBS30/18	W4-GBS30/18	29-31	18
W2-GBS33/18	W4-GBS33/18	31-34	18
W2-GBS36/18	W4-GBS36/18	34-37	18
W2-GBS39/18	W4-GBS39/18	37-40	18
W2-GBS42/18	W4-GBS42/18	40-43	18
W2-GBS45/20	W4-GBS45/20	43-47	20
W2-GBS49/20	W4-GBS49/20	47-51	20
W2-GBS53/20	W4-GBS53/20	51-55	20
W2-GBS57/20	W4-GBS57/20	55-59	20
W2-GBS61/20	W4-GBS61/20	59-63	20
W2-GBS66/20	W4-GBS66/20	63-68	20
W2-GBS71/25	W4-GBS71/25	68-73	25
W2-GBS76/25	W4-GBS76/25	73-79	25
W2-GBS82/25	W4-GBS82/25	79-85	25
W2-GBS88/25	W4-GBS88/25	85-91	25
W2-GBS94/25	W4-GBS94/25	91-97	25
W2-GBS101/25	W4-GBS101/25	97-104	25
W2-GBS108/25	W4-GBS108/25	104-112	25
W2-GBS117/25	W4-GBS117/25	112-121	25
W2-GBS126/25	W4-GBS126/25	121-130	25
W2-GBS135/30	W4-GBS135/30	130-140	30
W2-GBS145/30	W4-GBS145/30	140-150	30
W2-GBS156/30	W4-GBS156/30	150-162	30
W2-GBS168/30	W4-GBS168/30	162-174	30
W2-GBS181/30	W4-GBS181/30	174-187	30
W2-GBS194/30	W4-GBS194/30	187-200	30
W2-GBS207/30	W4-GBS207/30	200-213	30
W2-GBS220/30	W4-GBS220/30	213-226	30
W2-GBS233/30	W4-GBS233/30	226-239	30
W2-GBS246/30	W4-GBS246/30	239-252	30
W2-GBS259/30	W4-GBS259/30	252-265	30
W2-GBS272/30	W4-GBS272/30	265-278	30
W2-GBS285/30	W4-GBS285/30	278-291	30
W2-GBS298/30	W4-GBS298/30	291-304	30
W2-GBS311/30	W4-GBS311/30	304-317	30
W2-GBS324/30	W4-GBS324/30	317-330	30

HEAVY DUTY HOSE CLAMPS

SPECIAL VERSIONS MADE TO ORDER

As well as having a very high hose sealing performance the GBS clamp can be supplied without the sealing 'bridge'. This makes the clamp suitable for connecting and/or retaining pipes or objects together. Both 1-part and 2-part versions can be produced in this way and, if required, can be supplied with an anti-vibration rubber insert sleeve.

1. The photograph shows a 2-part retaining clamp with rubber insert (left)

and a 1-part retaining clamp: both without bridge(s).

2. Two, or more, opened-up GBS clamps can be used as retaining straps for holding canisters or containers to a vehicle or a wall. Special bolts may have to be supplied and rubber insert sleeves can be used to reduce vibration.
3. A one part GBS clamp with self-tensioning spring for use with EPDM or silicon hoses.

COBRA HOSE CLIPS

The **COBRA HOSE CLIP** is a reliable hose connection for all hose and tube systems.

Developed for automotive OEMs, Cobra is also suitable for other industries.

Due to its low profile, Cobra is particularly suitable for fastening bellows and gaiters in drive shafts and steering assemblies and irrigation tubing.

The Cobra is a one-piece hose clip. The band material is stainless steel, in 7mm, 8mm and 9mm band widths. This allows Cobra to be selected for arduous environments.

The Cobra hose clip may be quickly and easily assembled: Delivered in its open condition, the clip is pushed onto the hose or tube and locked with a hand or pneumatic tool. The integrated bead (8mm and 9mm band widths) ensures that the clip is centralised on assembly.

The single locking point, which allows for good visual control, guarantees safe assembly. In the locked position the bead prevents a sideways slip of the band, the ends of which overlap.

The special forming of the 8mm band width version allows for hose tolerances; the extremely low profile of the Cobra allows exact assembly in the most restricted space.

W4 Non-magnetic Stainless Steel throughout (AISI 304)

Product No.	Band Width mm	Clamping Range mm	Pack Qty
C7.5/7	7	8.0-9.0	100
C8/7	7	8.5-9.5	100
C8.5/7	7	9.0-10.0	100
C9/7	7	9.5-10.5	100
C9.5/7	7	10.0-11.0	100
C10/7	7	10.5-11.5	100
C10.5/7	7	11.0-12.0	100
C11/7	7	11.5-12.5	100
C11.5/8	8	12.0-13.5	100
C12/8	8	12.5-14.0	100
C13/8	8	13.5-15.0	100
C14/8	8	14.5-16.0	100
C15/8	8	15.5-17.0	100
C16/8	8	16.5-18.0	100
C17/8	8	17.5-19.0	100
C18/8	8	18.5-20.0	100
C19/8	8	19.5-21.0	100
C20/8	8	20.5-22.0	100
C21/8	8	21.5-23.0	100
C22/8	8	22.5-24.0	100
C23/8	8	23.5-25.0	100
C24/8	8	24.5-26.0	100
C25/8	8	25.5-27.0	100
C26/8	8	26.5-28.0	100
C27/8	8	27.5-29.0	100
C28/8	8	28.5-30.0	100
C29/8	8	29.5-31.0	100
C30/8	8	30.5-32.0	100

* Special sizes made to order

NORMA



HOSE CLAMPS & CLIPS

COBRA HOSE CLIPS

COBRA ASSEMBLY TOOLS

HAND TOOL

The **HAND TOOL** allows for exact assembly and damage-free dismantling. The tool tips ensure secure contact with the clip gripping points. A light, built-in spring holds the tool open thereby providing problem-free, continuous operation.



Product Number: CHT/1

PNEUMATIC TOOL

The **PNEUMATIC TOOL** is the ideal assembly tool for industrial applications. High volume production is achieved in comfort.

COBRA WORKSHOP ASSORTMENTS

240 ASSORTED CLIPS

The most popular Cobra sizes are packaged in a clean practical plastic box. A workshop assortment consists of Cobra hose clips in 7mm and 8mm band widths.

Product No. CCA240
Contents of Kit

C7.5/7 x 20	C14/8 x 20
C8/7 x 20	C16/8 x 20
C9/7 x 20	X18/8 x 20
C10/7 x 20	C20/8 x 20
C11/7 x 20	C22/8 x 20
C12/8 x 20	C24/8 x 20
	Hand Tool x 1





HOSE CLAMPS & CLIPS

CLIPS & CLAMPS



FUEL LINE CLAMPS

SL SERIES LIGHTWEIGHT CLAMPS

- Non-perforated one piece 9mm band closes to perfect 360° circle.
- Rolled edges for use on softer rubber compounds eg. fuel hose eliminates any risk of damage to hose.
- Lightweight mild steel zinc plated
- band and fastener corrosion resistance which meets OEM standards.
- 7mm hex head with cross slot ensures easy installation with either flexidriver or screwdriver.
- Captive nut is retained in clamps so it cannot be lost.

Product No.	Clamping Range mm	Band Width mm
W1-SL7-9/9	7-9	9
W1-SL9-11/9	9-11	9
W1-SL11-13/9	11-13	9
W1-SL13-15/9	13-15	9
W1-SL15-17/9	15-17	9
W1-SL10-12/9	10-12	9
W1-SL12-14/9	12-14	9
W1-SL14-16/9	14-16	9

HOSE & PIPE RETAINING CLIPS

All clips are supplied without bolts and nuts. The punched and riveted reinforced band end acts as a lock washer and prevents loosening of the bolt and nut on applications where there is vibration and high pulse pressure.

The vibration dampening rubber sleeve, as well as providing a cushion also prevents water penetration into the clamping area, specially important in road vehicles.

W1 Mild Steel, Zinc Plated, Sleeve-Rubber (EPDM)

Product No.	Band Width mm	Clamp I.D. mm
W1-RSGU1-4/15	15	4
W1-RSGU1-6/15	15	6
W1-RSGU1-9/15	15	9
W1-RSGU1-10/15	15	10
W1-RSGU1-12/15	15	12
W1-RSGU1-13/15	15	13
W1-RSGU1-15/15	15	15
W1-RSGU1-16/15	15	16
W1-RSGU1-18/15	15	18
W1-RSGU1-19/15	15	19
W1-RSGU1-20/15	15	20
W1-RSGU1-22/15	15	22
W1-RSGU1-25/15	15	25
W1-RSGU1-27/15	15	27
W1-RSGU1-29/15	15	29
W1-RSGU1-32/15	15	32
W1-RSGU1-35/15	15	35
W1-RSGU1-38/15	15	38
W1-RSGU1-40/15	15	40
W1-RSGU1-45/15	15	45
W1-RSGU1-48/15	15	48
W1-RSGU1-50/15	15	50
W1-RSGU1-55/15	15	55
W1-RSGU1-57/15	15	57
W1-RSGU1-60/15	15	60
W1-RSGU1-64/15	15	64
W1-RSGU1-66/15	15	66
W1-RSGU1-76/15	15	76

Other sizes and variations available. Details on request.
Special versions made to order.

ASSORTMENT KIT OF 90 PIPE RETAINING CLIPS

- W1-RSGU1-4/15 x 10
- W1-RSGU1-6/15 x 10
- W1-RSGU1-9/15 x 10
- W1-RSGU1-10/15 x 10
- W1-RSGU1-12/15 x 10
- W1-RSGU1-13/15 x 10
- W1-RSGU1-15/15 x 5
- W1-RSGU1-16/15 x 5
- W1-RSGU1-18/15 x 5
- W1-RSGU1-20/15 x 5
- W1-RSGU1-22/15 x 5
- W1-RSGU1-25/15 x 5



Product Number: RSGU90

PRE-FORMED CLAMPS

The preformed clamp is vibration resistant and requires no hammering or crimping. It is automatically locked under full tension in one simple lever movement. Preformed clamps are available in Type 201 stainless steel in five different widths.

Product No.	Clamp ID inches	Clamp ID mm	Band Width inches	Band Width mm
V240	3/4	19.1	1/4	6.4
V201	13/16	20.6	3/8	9.5
V202	1.3/8	34.9	3/8	9.5
V203	1	25.4	1/2	12.7
V204	1.1/4	31.8	1/2	12.7
V241	1.3/8	34.9	1/4	6.4
V252	1.1/2	38.1	1/4	6.4
V205	1.1/2	38.1	5/8	15.9
V236	1.3/4	44.5	1/2	12.7
V206	1.3/4	44.5	5/8	15.9
V245	2	50.8	3/8	9.5
V207	2	50.8	5/8	15.9
V208	2.1/4	57.2	5/8	15.9
V209	2.1/2	63.5	5/8	15.9
V230	2.3/4	69.9	1/2	12.7
V210	2.3/4	69.9	3/4	19.1
V246	3	76.2	3/8	9.5
V211	3	76.2	3/4	19.1
V212	3.1/2	88.9	3/4	19.1
V249	4	101.6	1/2	12.7
V213	4	101.6	3/4	19.1
V214	4.1/2	114.3	3/4	19.1
V215	5	127.0	3/4	19.1
V216	6	152.4	3/4	19.1
V218	7	180	3/4	19.1

NORMA



HOSE CLAMPS & CLIPS

NORMA BANDIMEX - BAND

100ft per roll (30.5m)
Type 201 Stainless Steel

Product No.	Width		Thickness	
	Inches	mm	Inches	mm
B202	1/4	6.35	.020	.51
B203	3/8	9.53	.025	.63
B204	1/2	12.70	.030	.76
B205	5/8	15.88	.030	.76
B206	3/4	19.05	.030	.76



NORMA BANDIMEX - BUCKLES

Package Quantity - 100
Type 201 Stainless Steel

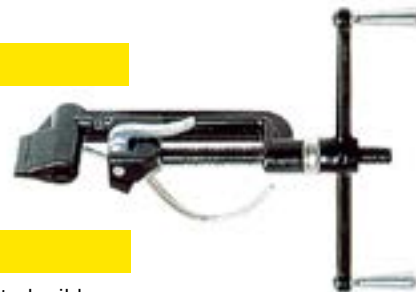
Product No.	Band Width	
	Inches	mm
S252	1/4	6.35
S253	3/8	9.53
S254	1/2	12.70
S255	5/8	15.88
S256	3/4	19.05



NORMA BANDING EQUIPMENT

Product No. Description

W001	Strapping Tool
V001	Pre-formed Clamping Adapter
W402	Jumbo Strapping Tool



WORM DRIVE BAND TYPE

This continuous Worm Drive Band & Buckle system is available in zinc plated mild steel or stainless steel (AISI 430).

It is suitable for most applications but especially hose clamping. It is re-usable. Tools required are 7mm hexagon socket or standard screwdriver and tin snips.

BANDS

Product No.	Width
5608566001	Mild steel 12mm
5608566003	Stainless steel 12mm

BUCKLES

Product No.	Suits Band
5608565001	Mild steel 12mm
5608565003	Stainless steel 12mm



NORMA BANDING SYSTEMS



HOSE CLAMPS & CLIPS

OETIKER CLIPS



OETIKER O CLIPS (2-EAR-CLAMPS)

Hose fastening at low and medium pressure. Standard: Steel, zinc plated. Stainless steel available on special request.

Product No.	Clamp Range mm	Width mm	Product No.	Clamp Range mm	Width mm
OTK1007	5-7	6	OTK1025	22-25	10
OTK1009	7-9	7	OTK1027	23-27	10
OTK1011	9-11	7	OTK1028	25-28	10
OTK1013	11-13	7	OTK1031	28-31	10
OTK1015	13-15	7.5	OTK1034	31-34	10
OTK1018	15-18	8	OTK1037	34-37	10
OTK1020	17-20	8.5	OTK1040	37-40	10
OTK1023	20-23	9			



OETIKER SIDE CLOSING PINCERS

This tool simplifies fitting and removing 2-EAR-CLAMPS. The side jaws are used to assemble clamps to hoses and the pincer jaws on the end can be used to cut through the 'ear' to remove clamps.

Product No. OTK1099





DYNAMIC
Constant Tension Clamps

- DELIVERS HIGHER BAND TENSION
- AUTOMATICALLY RE-TENSIONING EFFECT
- MAINTAINING CONSTANT BAND TENSION
- COMPENSATES FOR HOSE RELAXATION
- STOPS COLD LEAKS

HD
Worm Drive Clamps

- 16mm WIDE BAND WITH INBUILT HOSE PROTECTION
- HIGH CLAMPING FORCE - DOUBLE STANDARD CLAMPS
- ALL STAINLESS STEEL - AISI 304

DYNAMIC 12mm CONSTANT TENSION SOLID BAND WDHC CLAM SHELL - 2 PER PACK

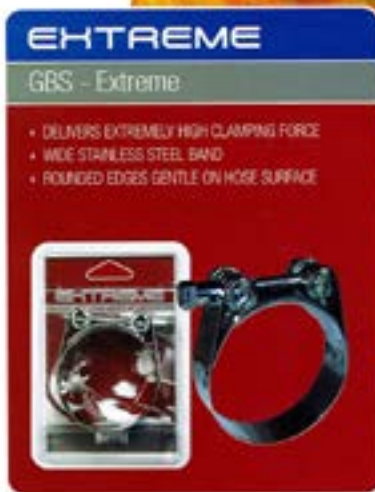
PART NUMBER	CLAMPING RANGE	X - REF
B16-27/12CT	16 - 27 MM	0137001 021
B25-40/12CT	25 - 40 MM	0137001 032
B30-45/12CT	30 - 45 MM	0137001 037
B35-50/12CT	35 - 50 MM	0137001 043
B40-60/12CT	40 - 60 MM	0137001 050
B50-70/12CT	50 - 70 MM	0137001 060
B60-80/12CT	60 - 80 MM	0137001 070
B70-90/12CT	70 - 90 MM	0137001 080
B80-100/12CT	80 - 100 MM	0137001 090
B90-110/12CT	90 - 110 MM	0137001 100

NORMA HD HIGH TORQUE CLAMP W4 GRADE CLAM SHELL - 2 PER PACK

PART NUMBER	CLAMPING RANGE	X - REF
W4 HD25-45/16C	25 - 45 MM	0156 5000 035
W4 HD32-54/16C	32 - 54 MM	0156 5000 043
W4 HD45-67/16C	45 - 67 MM	0156 5000 056
W4 HD57-79/16C	57 - 79 MM	0156 5000 068
W4 HD70-92/16C	70 - 92 MM	0156 5000 081
W4 HD83-105/16C	83 - 105 MM	0156 5000 094
W4 HD95-118/16C	95 - 118 MM	0156 5000 106

The Connecting Professionals

HOSE CLAMPS & CLIPS



NORMA GBS-EXTREME HEAVY DUTY HOSE CLAMP W2 GRADE CLAM SHELL - 1 PER PACK

PART NUMBER	CLAMPING RANGE	X - REF
W2 GBS 61/20C	59 - 63 MM	0591 5000 061
W2 GBS 66/20C	63 - 68 MM	0591 5000 066
W2 GBS 71/25C	68 - 73 MM	0591 5000 071
W2 GBS 76/25C	73 - 79 MM	0591 5000 076
W2 GBS 82/25C	79 - 85 MM	0591 5000 082
W2 GBS 88/25C	85 - 91 MM	0591 5000 088

HOSE CLAMPS

THE OETIKER SC SERIES

SAFETY SWING TO CONNECT

With full flow. No force required or loss of pressure in the system. Just a turn and the air vent ensures that the hose is ventilated - thus rendering it harmless. OETIKER Swing Couplings SC are available in nominal sizes DN6 to DN11 and in different models. They are compatible with most popular plug systems. The many different types and models and a wide choice of seals and lubricants mean that OETIKER Couplings are suitable for numerous applications throughout industry. Durability, reliability, simple and safe handling are features of all OETIKER Swing Couplings. OETIKER Swing Couplings fulfill all the requirements of current quality standards and have also been awarded a type examination certificate from the Swiss Accident Insurance Institute SUVA.

FEATURES

- In accordance with safety standard ISO 4414, EN 983
- Pressure always automatically off during the coupling process
- Full flow, negligible loss of pressure
- Simple operation, no force required
- Compact design
- Eco - design
- CE



DN8 - 3/8"



DN6 - 1/4"



DN11 - 1/2"

MORE EFFICIENT, LOW ENERGY CONSUMPTION AND SAFE

The new generation of OETIKER Couplings, the valveless SC coupling model - result of innovative development and many years of experience - free flow guaranteed in every case. When using compressed air operated equipment, for instance, in conjunction with OETIKER Swing Couplings SC, the result will always be a method of working which is more efficient with low energy consumption, thus making it very economical.

APPLICATION

Throughput media:

Compressed air, gases, liquids and media with low to medium viscosity due to free flow with no deflections. Easy to clean.

Pressure:

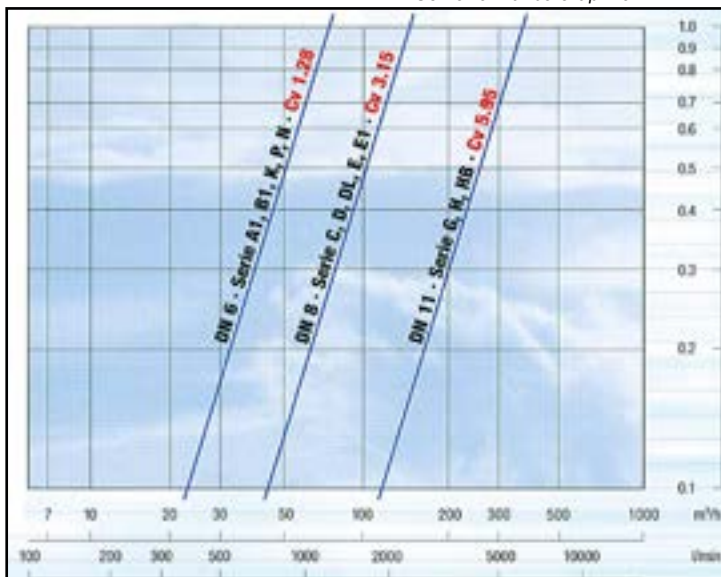
Operating pressure up to 25 bar - connection and disconnection up to 15 bar - also suitable for technical vacuums (up to approximately 100 mbar).

Temperature:

Standard model from -20° to + 100°C. Higher temperatures possible depending upon media with the use of FPM or EPDM seals.



SC Performance Graph for Air



Flow rate at 20°, operating pressure 6 bar



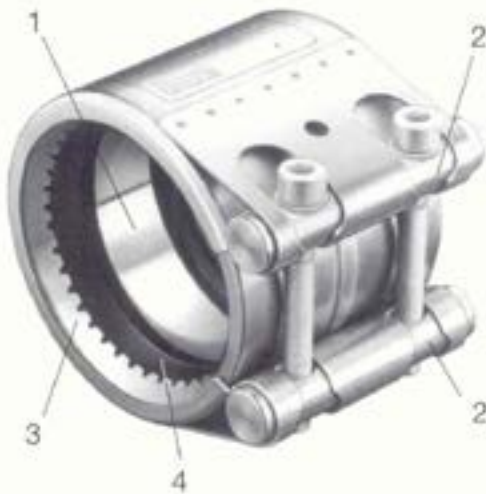
Cross Section Model SC



HOSE CLAMPS & CLIPS

OETIKER SWING
COUPLINGS

NORMACONNECT® G is an Axial Restraint pipe coupling for connecting unrestrained metal pipes. NORMACONNECT® G has the following features:


1. Standard strip insert

The reinforcing strip inlay makes it possible to easily use the coupling even for large pipe gaps and vacuum applications. In addition, the shear strength of the coupling is increased.

2. Heavy - duty lock bars

For the NORMACONNECT® pipe coupling, thicker bars are used. This considerable improves the coupling's rigidity and the engagement of the bolts' threads.

3. Conically stamped anchoring ring

The anchoring ring with its conically stamped teeth indents into the pipe surface and provides safe and strong axial restraint. Owing to the special design of the anchoring ring, the coupling is able to withstand even high vibration loads.

4. New double - lip sealing system

The patented sealing system provides double safety.

ALL SIZES AT A GLANCE

type	OD _{ODmin} (mm)	OD _{ma} (mm)	nominal pressure PN	a (mm)	b (mm)	c _{max with strip} (mm)	d (mm)	R (mm)	bolt (mm)	Approx. weight (kg/pcs)
G1	26.9	26.4 - 27.4	16	67.0	9.5	3	44	44	M8	0.4
	28.0	27.5 - 28.5	16	67.0	9.5	3	45	45	M8	0.4
	30.0	28.6 - 30.5	16	67.0	9.5	3	45	45	M8	0.4
	33.7	31.0 - 34.2	16	67.0	9.5	3	51	46	M8	0.4
	35.0	34.5 - 35.5	16	62.4	14.4	8	55	51	M8	0.5
	38.0	35.6 - 38.5	16	62.4	14.4	8	57	48	M8	0.5
	42.4	39.5 - 42.9	16	62.4	14.4	8	62	50	M8	0.6
	44.5	43.0 - 45.0	16	62.4	14.4	8	64	50	M8	0.6
	48.3	46.0 - 48.8	16	62.4	14.4	8	68	53	M8	0.6
	54.0	53.6 - 54.9	16	77.4	29.4	17	74	57	M8	0.8
	57.0	55.0 - 57.6	16	77.4	29.4	17	78	55	M8	0.8
	60.3	58.0 - 60.9	16	77.4	29.4	17	79	69	M8	0.8
	73.0	72.6 - 74.0	16	98.0	40.3	25	98	74	M10	1.5
	76.1	74.0 - 76.9	16	98.0	40.3	25	100	75	M10	1.5
	84.0	82.0 - 85.0	16	98.0	40.3	25	108	76	M10	1.6
	88.9	87.0 - 89.8	16	98.0	40.3	25	111	80	M10	1.7
	101.6	101.0 - 102.9	16	98.0	40.3	25	128	85	M10	1.8
	104.0	102.9 - 105.1	16	98.0	40.3	25	127	77	M10	1.8
	108.0	106.9 - 109.1	16	98.0	40.3	25	131	86	M10	1.8
	110.0	109.0 - 111.0	16	98.0	40.3	25	133	87	M10	1.8
114.3	112.0 - 115.4	16	98.0	40.3	25	137	88	M10	1.8	
129.0	127.8 - 130.2	16	115.0	50.0	35	154	101	M12	3.1	
133.0	131.7 - 134.3	16	115.0	50.0	35	160	106	M12	3.3	
139.7	138 - 141.1	16	115.0	50.0	35	166	109	M12	3.3	
141.6	138 - 142.0	16	115.0	50.0	35	167	109	M12	3.3	
154.0	152.4 - 155.6	16	115.0	50.0	35	180	110	M12	3.4	
159.0	157.4 - 160.6	16	115.0	50.0	35	186	118	M12	3.5	
168.3	166.6 - 170.0	16	115.0	50.0	35	194	115	M12	3.7	
204.0	202.0 - 206.0	16	142.0	67.0	35	234	144	M16	6.0	
219.1	216.9 - 221.3	16	142.0	67.0	35	249	155	M16	6.1	
type	OD (mm)	OD _{min} OD _{max} (mm)	M.A.W.P. ¹⁾ (BAR)	a (mm)	b (mm)	c _{max with strip} (mm)	d (mm)	R (mm)	bolt (mm)	3.3Approx. weight 3.4(kg/pcs)3.4
GL2	204.0	202.0 - 206.0	10	140.0	66.8	35	232	144	M16	5.7
	219.1	216.0 - 221.3	10	140.0	66.8	35	249	155	M16	5.9
	254.0	251.5 - 256.5	5.5	140.0	66.8	35	278	167	M16	6.0
	267.0	264.4 - 269.6	5.5	140.0	66.8	35	292	176	M16	6.1
	273.0	270.3 - 275.7	5.5	140.0	66.8	35	299	180	M16	6.1
	304.0	301.0 - 307.0	3	140.0	66.8	35	328	192	M16	6.5
	323.9	320.6 - 327.2	3	140.0	66.8	35	349	205	M16	6.9
	355.6	352.0 - 359.2	2.7	140.0	66.8	35	384	218	M16	7.4
	406.4	402.3 - 410.5	2.5	140.0	66.8	35	430	230	M16	7.9

*NOTE: ¹⁾ Maximum Allowable Working Pressure

²⁾ Further sizes available on request from OD 180.0 to 406.7mm

APPLICATION RANGE

NORMACONNECT pipe couplings require no special tools or pipe-end treatment. Flexible, lightweight, 304 or 316 stainless steel construction; the NORMACONNECT Pipe Coupling design allows for pipe misalignment, will give a reliable seal, allow for 2° angular deflection, vibration or a small gap between pipe ends. The Norma Pipe Couplings are manufactured in Germany and are used in shipbuilding, wastewater treatment, compressed air, general industry, mining and construction.

New installations, system alterations or repairs, NORMACONNECT will replace the use of welded, flanged, threaded or grooved type pipe joints.

NORMACONNECT Pipe Couplings are the easiest and most cost effective way to join plain ended pipes. Available in diameters from 26.9mm to 2032mm. For system working pressures up to 70 bar.

* Maximum allowable working pressure rating varies according to pipe diameter.



ASSEMBLY TOLERANCES

Up to 35mm distance between pipe ends with insert.

Up to 3mm axial misalignment

2° angular deflection in all directions

Up to 60mm pipe ovality

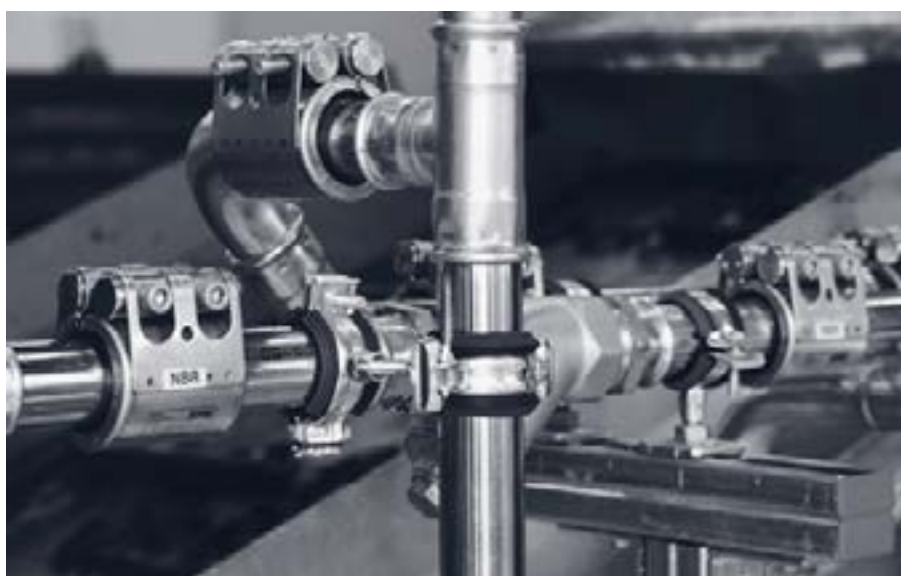
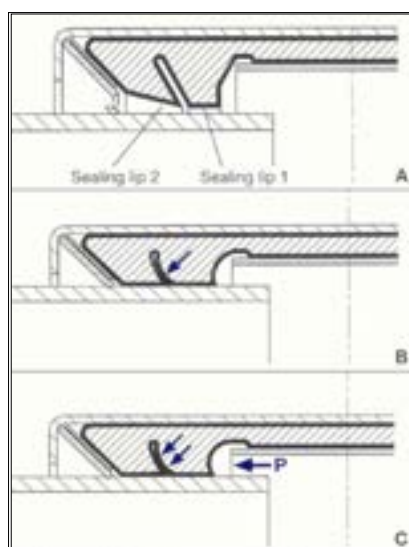
Up to 6mm outer diameter pipe difference.

DOUBLE - LIP SEALING SYSTEM

The patented double - lip sealing system (Fig. A) of the NORMACONNECT pipe coupling offers double safety; it provides maximum sealability at both low and high operating pressures.

During tightening, sealing lip 1 is pressed onto sealing lip 2 in such a way that also at low line pressures (has), at vacuum or at high loads on the joint, an excellent sealing effect is obtained (Fig. B).

Due to the special sealing lip design, the sealing effect is even stronger when the internal pressure rises, as the sealing lips are pressed more firmly onto the pipe surface with increasing system pressure (P) (Fig. C).





H.I.S. HOSE

Proprietary Limited



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