



Leak-Free Port to Port System

Gates



know-how makes the difference

ERIKS

INTRODUCTION

Gates and ERIKS

Gates produces high-performance hydraulic hoses, couplings, tube fittings, adaptors and self-assembly equipment for original equipment manufacturers and replacement market customers. Gates hydraulic products work together to give you just one part, or the complete solution to your fluid power needs. You decide.

With the Gates hydraulic hose and fitting portfolio and ERIKS hydraulic know how partnership you'll be able to get the job done easily and without fuss. Thanks to the Gates Integrated Systems Approach you can select, combine and integrate all the hydraulic components you need to keep your operation and equipment running smoothly, safely and reliably. Eriks customer service dedication offers full product support and technical assistance and with Eriks being an approved Gates training centre we can offer hose assembly training to customer's requirements.

Helping you keep costs down, avoiding downtime and loss of production, making things easy to use, speeding up installation, maintenance and repair – these are key parts of our philosophy and they underpin the reasons why people choose Gates.

With Gates you can:

1. Find what you need, easily

- Our product range is deliberately extensive so you can find the item or the solution you need and get it quickly and easily
- Our products are fully integrated so you can combine them quickly and safely to create hose assemblies and systems for all manner of uses and industrial environments
- Furthermore, built-in versatility means you can use Gates products with a wide range of complementary products, applications and systems

2. Trust what you use

- Gates products are the byword for reliability and unrivalled safety. You can be sure our components meet and often exceed all the necessary European and international standards
- Their ease of assembly and use means you can put them to work quickly and confidently
- For your more complex situations and environments you can rely on Gates to give you the technical support, advice and expertise you need to find a solution

3. Save money, time and effort

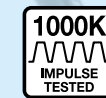
- You can save money with quality hydraulic equipment from Gates – with hose assemblies that can last up to three times longer than international standards require, giving you the lowest total cost of ownership
- Our self-assembly machinery and other systems are simple to set up and use, so you can improve production performance within a safer environment.
- Our product innovations can really make a difference and are driven by our philosophy of saving you time, cost and effort

INTRODUCTION

Why Gates - 10 Good Reasons:



The ISO specification for wire braid hose demands that the product is tested to 200,000 impulse cycles. At Gates we believe that this is insufficient to test and assess product performance. All Gates wire braided hoses are tested, prior to release and from subsequent production batches, to 600,000 leak free impulse cycles.



The ISO specification for wire spiral hose demands that the product is tested to 500,000 impulse cycles. Gates test as a minimum requirement to 1,000,000 leak free impulse cycles prior to product release.

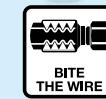
This additional testing and validation ensures that Gates products perform better, last longer and provide superior levels of safety for product fitters and equipment operatives.



The Gates coupling range when used in conjunction with Gates hose is guaranteed Leak Free.



The unique and patented Megacrimp fitting range is suitable for fabric braid, thermoplastic and wire braid hose. The unique "C" insert provides a 360° swage which eliminates the weep from the back of the hose ferrule which is common among other traditional designs.



All Gates fittings from Megacrimp to Global Spiral (GS) are non skive couplings. The potential for contamination during the assembly process is substantially reduced and assembly time is reduced.



All Gates hose covers are, as standard, 25x more abrasion resistant than the ISO specifications require. For more arduous working conditions Gates also offer Xtratuf covers which provide a further 25 x abrasion resistance and Megatuf covers which offer in excess of 300 x abrasion resistance.



Gates hydraulic hose exceed the ISO specifications and provide the lowest minimum bend radius within the industry.



A low minimum bend radius without flexibility is not sufficient without ease of bend. The Gates hose range is amongst the most flexible in the market.



The Gates patented "tough coat" plating provides up to 400 hours corrosion resistance.



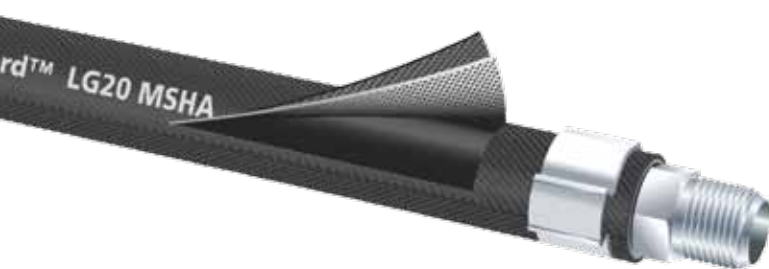
The Gates product range provides a simple and "fool proof" system. Megacrimp (G) couplings on wire braid, fabric braid and thermoplastic hose, GS on wire spiral.

LIFEGUARD

LEAK FREE PORT TO PORT SYSTEM



There's a better way to protect against hydraulic hose failure



LifeGuard Sleeving



LifeGuard™ line-of-sight sleeving keeping you safe

ARE YOUR WORKERS PROTECTED ?

At Gates we take safety very seriously and our LifeGuard™ line-of-sight sleeving system is a case in point. It lets you safely protect nearby machine operators and personnel from catastrophic hydraulic hose failure using a revolutionary sleeve system developed by our design engineers.

It's worth noting that even an invisible pinhole leak in a hydraulic hose under pressure can release toxic fluid at more than 200 metres per second – close to the muzzle velocity of a gun. A jet like this can act like a hypodermic needle, penetrating both protective clothing and skin. Other dangers from hydraulic bursts or pinhole leaks can lead to personal injury from fluid burns and injection, fires, explosions, electric shock and mechanical failure.

Increase your people's safety

A LifeGuard™ 4000-sleeved hose will hold back 8,000 psi bursts and 4,000 psi pinhole leaks at 100°C for up to five minutes on 1/4" to 1" hose sizes. It does this by redirecting the explosive force of a high-pressure burst down the length of the specially-designed, triple-layered sleeve; dispersing the energy and fluids at the hose ends via carefully designed 'channel' clamps. The leaked fluid from the clamps allows you to spot the failure more easily.

Install it easily and keep costs down

LifeGuard™ line-of-sight sleeving is a safe, effective and economical alternative to costly metal and plastic shielding. The sleeving is compatible with a wide range of fluids, including environmentally friendly liquids and biodiesel fuel so you can use it in all kinds of situations. Lifeguard sleeving conforms to SAE standards, protecting users from fluid temperatures of up to 100°C.

Gates hydraulics, the integrated systems approach

Rigorous testing and product validation have always been central to the Gates philosophy. Gates' Next Generation Hydraulics - the Gates Integrated System Approach including all components of the MegaSys® hose and coupling family - offer a combination of technology, performance and flexibility unmatched by anything on the market today - or for the foreseeable future!

Find out more about the Gates Integrated System Approach on www.Gates.com/europe/integrated-system



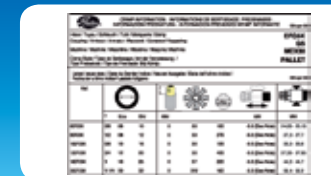
The Gates programme



Superior products, manufactured to stringent tolerances



Innovative self-assembly machines and dies, rigorously validated



Optimal crimp data, derived from meticulous testing



Factory-quality performance above and beyond all international standards in full compliance with EU directives

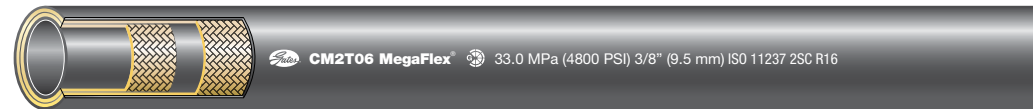
HYDRAULIC HOSE

MEGACRIMP® COUPLINGS

Selection of hose types

CM2T

ISO 11237 2SC R16



-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.55	14.1	5800	40.0	23200	160.0	50	31	CM2T04
-5	8	5/16	0.61	15.5	5000	35.0	20000	140.0	55	35	CM2T05
-6	10	3/8	0.70	17.7	4800	33.0	19200	132.0	65	42	CM2T06
-8	12	1/2	0.82	20.8	4000	27.5	16000	110.0	90	51	CM2T08
-10	16	5/8	0.97	24.6	3625	25.0	14500	100.0	100	70	CM2T10
-12	19	3/4	1.09	27.8	3100	21.5	12400	86.0	120	81	CM2T12
-16	25	1	1.41	35.8	2400	16.5	9600	66.0	150	115	CM2T16

2JC JETCLEAN™

Temperature Range: -40°C - +155°C
Covers Available: Black, Blue or Grey



-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-5	8	5/16	0.64	16.3	5800	40.0	20300	140.0	55	38	2JC05
-6	10	3/8	0.74	18.8	5800	40.0	19200	132.0	65	49	2JC06
-5	8	5/16	0.64	16.3	5800	40.0	20300	140.0	55	38	2JC05B
-6	10	3/8	0.74	18.8	5800	40.0	19200	132.0	65	49	2JC06B
-8	12	1/2	0.86	21.8	5800	40.0	16000	110.0	90	63	2JC08B
-6	10	3/8	0.74	18.8	5800	40.0	19200	132.0	65	49	2JC06G

EFG5K

MEGASYS



-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-6	10	3/8	0.80	20.2	5000	35.0	20000	140.0	65	71	6EFG5K
-8	12	1/2	0.95	24.0	5000	35.0	20000	140.0	90	89	8EFG5K
-10	16	5/8	1.09	27.6	5000	35.0	20000	140.0	100	115	10EFG5K
-12	19	3/4	1.24	31.4	5000	35.0	20000	140.0	120	144	12EFG5K
-16	25	1	1.53	38.7	5000	35.0	20000	140.0	150	223	16EFG5K
-20	31	1.1/4	1.97	50.0	5000	35.0	20000	140.0	210	399	20EFG5K
-24	38	1.1/2	2.26	57.4	5000	35.0	20000	140.0	250	482	24EFG5K
-32	51	2	2.80	71.1	5000	35.0	20000	140.0	315	719	32EFG5K

BSP 60° Cone – MegaCrimp couplings



Male BSP Parallel. 60° Cone

Part No	Hose Bore	Thread Size	Pack Size
4G4MBSPP	1/4"	G1/4"	10
6G6MBSPP	3/8"	G3/8"	10
8G8MBSPP	1/2"	G1/2"	10
10G10MBSPP	5/8"	G5/8"	10
12G12MBSPP	3/4"	G3/4"	10
16G16MBSPP	1"	G1"	5



Female BSP. O-ring Swivel. 60° Cone

Part No	Hose Bore	Thread Size	Pack Size
4G4FBSPORX	1/4"	G1/4"	10
6G6FBSPORX	3/8"	G3/8"	10
8G8FBSPORX	1/2"	G1/2"	10
10G10FBSPORX	5/8"	G5/8"	10
12G12FBSPORX	3/4"	G3/4"	10
16G16FBSPORX	1"	G1"	5



Female BSP. O-ring Swivel 60° Cone. 90° Swept Elbow

Part No	Hose Bore	Thread Size	Pack Size
4G4FBSPORX90	1/4"	G1/4"	10
6G6FBSPORX90	3/8"	G3/8"	10
8G8FBSPORX90	1/2"	G1/2"	10
10G10FBSPORX90	5/8"	G5/8"	10
12G12FBSPORX90	3/4"	G3/4"	10
16G16FBSPORX90	1"	G1"	5

Din Light Series. 24° Cone – MegaCrimp couplings



Female Straight

Part No	Hose Bore	Thread Size	Pack Size
4G10FDLORX	1/4"	M16x1.5	10
6G12FDLORX	3/8"	M18x1.5	10
8G15FDLORX	1/2"	M22x1.5	10
10G18FDLORX	5/8"	M26x1.5	10



Female 90° Swept Elbow

Part No	Hose Bore	Thread Size	Pack Size
4G10FDLORX90	1/4"	M16x1.5	10
6G12FDLORX90	3/8"	M18x1.5	10
8G15FDLORX90	1/2"	M22x1.5	10
10G18FDLORX90	5/8"	M26x1.5	10



Male Straight

Part No	Hose Bore	Thread Size	Pack Size
4G10MDL	1/4"	M16x1.5	10
6G12MDL	3/8"	M18x1.5	10
8G15MDL	1/2"	M22x1.5	10
10G18MDL	5/8"	M26x1.5	10

Din Heavy Series. 24° Cone – MegaCrimp couplings



Female Straight

Part No	Hose Bore	Thread Size	Pack Size
4G10FDHORX	1/4"	M18x1.5	10
6G12FDHORX	3/8"	M20x1.5	10
8G16FDHORX	1/2"	M24x1.5	10
10G20FDHORX	5/8"	M30x2.0	10



Female 90° Swept Elbow

Part No	Hose Bore	Thread Size	Pack Size
4G10FDHORX90	1/4"	M18x1.5	10
6G12FDHORX90	3/8"	M20x1.5	10
8G16FDHORX90	1/2"	M24x1.5	10
10G20FDHORX90	5/8"	M30x2.0	10



Male Straight

Part No	Hose Bore	Thread Size	Pack Size
4G10MDH	1/4"	M18x1.5	10
6G12MDH	3/8"	M20x1.5	10
8G16MDH	1/2"	M24x1.5	10
10G20MDH	5/8"	M30x2.0	10

MEGACRIMP® COUPLINGS

ERIKS OE PRODUCTION CENTRE OFFERING

BSP. 60° Cone – GlobalSpiral couplings



Female Straight

Part No	Hose Bore	Thread Size	Pack Size
8GS8FBSPORX	1/2"	G1/2"-14 BSP	1
10GS10FBSPORX	5/8"	G5/8"-14 BSP	1
12GS12FBSPORX	3/4"	G3/4"-14 BSP	1
16GS16FBSPORX	1"	G1"-11 BSP	1



Female 90° Swept Elbow

Part No	Hose Bore	Thread Size	Pack Size
8GS8FBSPORX90	1/2"	G1/2"-14 BSP	1
10GS10FBSPORX90	5/8"	G5/8"-14 BSP	1
12GS12FBSPORX90	3/4"	G3/4"-14 BSP	1
16GS16FBSPORX90	1"	G1"-11 BSP	1



Male Straight

Part No	Hose Bore	Thread Size	Pack Size
8GS8MBSP	1/2"	G1/2"-14 BSP	1
10GS10MBSP	5/8"	G5/8"-14 BSP	1
12GS12MBSP	3/4"	G3/4"-14 BSP	1
16GS16MBSP	1"	G1"-11 BSP	1

DIN Heavy. 24° Cone – GlobalSpiral couplings



Female Straight

Part No	Hose Bore	Thread Size	Pack Size
8GS16FDHORX	1/2"	M24x1.5	1
10GS20FDHORX	5/8"	M30x2.0	1
12GS25FDHORX	3/4"	M36x2.0	1
16GS30FDHORX	1"	M42x2.0	1



Female 90° Swept Elbow

Part No	Hose Bore	Thread Size	Pack Size
8GS16FDHORX90	1/2"	M24x1.5	1
10GS20FDHORX90	5/8"	M30x2.0	1
12GS25FDHORX90	3/4"	M36x2.0	1
16GS30FDHORX90	1"	M42x2.0	1



Male Straight

Part No	Hose Bore	Thread Size	Pack Size
8GS16MDH	1/2"	M24x1.5	1
10GS20MDH	5/8"	M30x2.0	1
12GS25MDH	3/4"	M36x2.0	1
16GS30MDH	1"	M42x2.0	1



No-Skive Ferrules

Part No	Hose Bore Size
6GS1F-4	3/8"
8GS1F-4	1/2"
10GS1F-4	5/8"
12GS1F-4	3/4"
16GS1F-4	1"
20GS1F-4	1.1/4" (4 spiral hose)
20GS1F-6	1.1/4" (6 spiral hose)

Gates GlobalSpiral Plus

Gates GlobalSpiral Plus (GSP) is a new range of non-skive 2-piece large bore couplings designed for 1 and 2-wire braid hydraulics hose.



Female Straight

Part No	Hose Bore	Thread Size	Pack Size
24GSP24FBSPORX	1.1/2"	G1.1/2"-11BSP	1
32GSP32FBSPORX	2"	G2"-11BSP	1



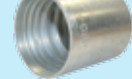
Male Straight

Part No	Hose Bore	Thread Size	Pack Size
24GSP24MBSP	1.1/2"	G1.1/2"-11BSP	1
32GSP32MBSP	2"	G2"-11BSP	1



Female 90° Swept Elbow

Part No	Hose Bore	Thread Size	Pack Size
24GSP24FBSPORX90	1.1/2"	G1.1/2"-11BSP	1
32GSP32FBSPORX90	2"	G2"-11BSP	1



Ferrules for 1 and 2-Wire Hose

Part No	Hose Bore	Pack Size
24GSP1F-2	1.1/2"	1
32GSP1F-2	2"	1

Offering You More

- Approved OE centre for Gates Fluid Power
- Accredited to The British Fluid Power Distribution Association hose assembler program.
- Hose assembly testing and certification to international standards
- Tailored training programmes covering hose assembly installation, inspection and health & safety

OE Approach

- Total cost reduction
- Gates Global provider of performance products
- EMB Din adaptors and tube fittings
- Tube manipulation and tube end forming
- Bespoke fittings and manifold block solutions
- Onsite application and system design support

What This Means To You

- Warranty Cost reduction
- Improved service life of your machines
- The Port to Port concept is designed to supply an integral program between the hose, coupling, adaptor and the Din compression fitting.
- Application engineering support in the prototype process, to reduce the number of components and connections.

Logistic Solutions

- Kitting
- Line Side feed
- System supply and sub-assemblies
- EDI
- Full inventory management



CRIMPERS

CRIMPER STARTER KITS

**MCX 25**

Compact crimper for low-volume production. Ideal as a starter machine for small workshops. Crimps no-skive GlobalSpiral™ couplings up to 1" and no-skive MegaCrimp® couplings for wire-braid hose up to 1.1/4". Equipped with a die set storage rack allowing for logically organised die storage within easy reach of the operator, thus speeding up die selection and assembly. DC power pack versions are also available for mobile service vans. Ref: 7480-19184: 3 phase / 7480-19183: 1 phase / 7480-19182: 12V

**MCX 30**

Compact, operator-friendly machine to crimp the complete Gates range up to 1.1/4" spiral and wire braid hose. Equipped with a die set storage rack allowing for logically organised die storage within easy reach of the operator, thus speeding up die selection and assembly. DC power pack versions are also available for mobile service vans. Ref: 7480-19187: 3 phase / 7480-19186: 1 phase / 7480-19185: 12V

CM30

Finn-Power CM30 cutting machines are hand operated and designed especially for use, in workshops and service vans. They can be used for cutting up to 2" wire braid hoses efficiently, fast and safely. Equipped with a fume exhaust connection.

Technical Specifications

Power	3-ph	1-ph	DC
Maximum hose capacity (inch)			
1-2 wire	2	2	1 1/4
4 wire	1 1/4	1 1/4	3/4
Motor (kW)	3	2.2	1.1
Voltage (V)	230/400	230	12
Speed of blade (rpm)			
50 Hz	2750		
60 Hz	3370		
Blade Diameter (mm)	300		
Overall Dimensions	CM30		
length (mm)	600		
width (mm)	503		
height (mm)	739		

Get started with the Gates MC1001, MCX20 and MCX30 Starter Kit which includes:

MC1001 Starter Kit

This simple to use and lightweight machine will be suitable to workshops requiring capability to manufacture hydraulic hose assemblies for own use. This crimper can accommodate hose assemblies up to 1" wire braid.

- MC1001 can crimp up to 1" wire braid
- Dies included 1/4", 3/8", 1/2" and 3/4"
- Compact CM2T Megaflex-wire hydraulic hose from 1/4" to 3/4"
- Gates Megacrimp one-piece couplings in BSP, JIC, METRIC, ORFS

Die sets included for the Gates MC1001 crimper

Part No	MC1000-D21	MC1000-D22	MC1000-D33	MC1000-D34	MC1000-D35
Hose Bore	1/4"	5/16", 3/8"	1/2"	5/8"	3/4"

MCX20 Starter Kit

This hand operated crimper allows you to crimp up to 1 1/4" multi spiral, but still retains the flexibility to be used in either workshops or mobile applications. Comes complete with a separate box for ease of storage for the die sets.

- MCX20 can crimp up to 1" multi-spiral hose and 1 1/4" 2-wire hydraulic hose
- Dies included 1/4", 3/8", 1/2", 3/4" and 1"
- Compact CM2T Megaflex 2-wire hydraulic hose from 1/4" to 1"
- EFG5K 5000 psi multi-spiral hose in 3/4" and 1"
- Gates Megacrimp one-piece couplings in BSP, JIC, Metric, ORFS
- Gates Globalspiral no-skive couplings in BSP, JIC, Metric

Die sets included for the Gates MCX20 crimper

Part No	263-D21	263-D22	263-D33	263-D34	263-D35	263-D37
Hose Bore	1/4"	5/16", 3/8"	1/2"	5/8"	3/4"	1"

MCX30 Starter Kit

This starter kit will allow you to manufacture hose assemblies up to 1 1/4" bore in Multi Spiral hose with this powered operated crimper.

- Dies : 1/4", 3/8", 1/2", 3/4", 1" and 1 1/4"
- Compact CM2T Megaflex 2-wire hydraulic hose from 1/4" to 1 1/4"
- EFG5K 5000 psi multi spiral hose from 3/4" to 1 1/4"
- Gates Megacrimp one piece couplings in BSP, JIC, Metric and ORFS
- Gates Globalspiral no-skive couplings in BSP, JIC, Metric, ORFS and SAE Flanges
- Crimpers available in 1, or 3 phase versions
- Complete with a die storage system and quick die change tool.

Die sets included for the Gates MCX30 crimper.

Part No	239-D21	239-D22	239-D33	239-D34	239-D35	239-D37	239-D39	239-D310
Hose Bore	1/4"	5/16"/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/4"



LEGISLATION & TRAINING

Important facts to test your knowledge ... did you know:

- You cannot mix and match components of different suppliers that are not validated nor tested (2006/42/EC – ISO 4413/2010)?
- The repair of hose assemblies is forbidden by law (2006/42/EC – ISO 4413/2010)?
- Marking hoses, showing the day and year of manufacture, is obligatory (ISO 4413/2010)?
- The lifetime of hose assemblies is limited?
- Fluids under pressure can result in serious injuries or even death?
- The assembler can be held responsible for the consequences of a failed hydraulic hose assembly (2006/42/EC – ISO 4413/2010)?

The power and potential dangers of working with hydraulics mean you can never be complacent about people's safety. You can't underestimate the power of a hydraulic hose assembly under pressure. Having the world's best hoses and couplings is not enough to ensure the safety of your hose assemblies. If they're assembled poorly, installed badly or stored in the wrong way you can compromise performance and even human safety.

The Gates Safe Hydraulics Programme

We run the Safe Hydraulics Programme, a safety and preventive maintenance training seminar, for all our customers because your safety and that of your workforce, your customers and the environment is always a top priority for us.

It's designed by Gates application engineers and run by experienced and certified trainers. During the seminar, which can be tailored to match your needs, our experts will:

- Teach you how to work safely and how to reduce your risks and protect the environment
- Cover the entire process: storage, selection, installation and inspection
- Explain how to avoid material and personal hazards and liability issues
- Give you expert information on safety issues affecting hydraulic hose assemblies

You can book places on seminars through your authorised Gates distributor or partner and you can send people to us from all industries, backgrounds and levels of hydraulic knowledge.

To find out more please go to our website www.safehydraulicseurope.com or ask for our Safe Hydraulics pocket guide.



EMB Products Overview



EMB Introduction

The EMB product range is the perfect extension to the Gates range of high performance hydraulic hose assemblies. The EMB product can be used to provide port to port leak free connections to high pressure Steel or Stainless Steel tube systems or for connection to hydraulic hoses. The EMB product range conforms to international standards and specifications and provides a wide variety of connection options.

Products Overview

Tube to tube with both the standard DS™ double edged cutting ring or the DSW™ soft seal double edged cutting ring. Both the DS and DSW cutting rings provide both O.E and MRO customers with ease of assembly and feature a torque stop which prevents over assembly

Alternatively the coupling bodies and tube nuts can be used with either the DIN standard welding Nipple or the unique EMB FS™ (Form & seal) tube end forming programme. The FS System eliminates the need for skilled and certified welders, and additional system cleaning and high inspection costs normally associated with welded tube systems used in high pressure circuits.

In addition the JIC 37° Flare adaptor programme can be used to connect between the European DIN and the American JIC standard. The EMB bodies may also be used in conjunction with the Gates Metric hose coupling programmes to allow direct connection to flexible pipework.

All EMB systems are guaranteed Leak free.

All EMB fittings in addition to the Chrome 6 Free surface finish have an additional protection level – NANO Protect, which provides up to 400 hours protection to Red Rust.

Whilst all sizes can be assembled manually, EMB also offer a full range of both pre and final assembly tools and machines to speed assembly times and reduce production / maintenance costs.

DSW Cutting Ring



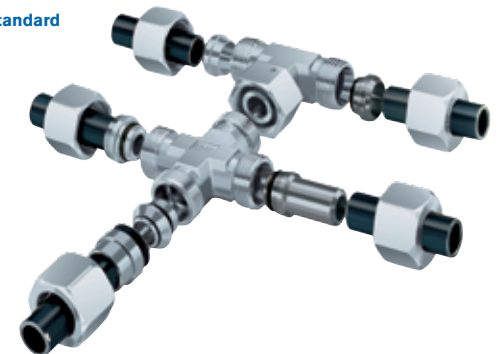
DS Cutting Ring



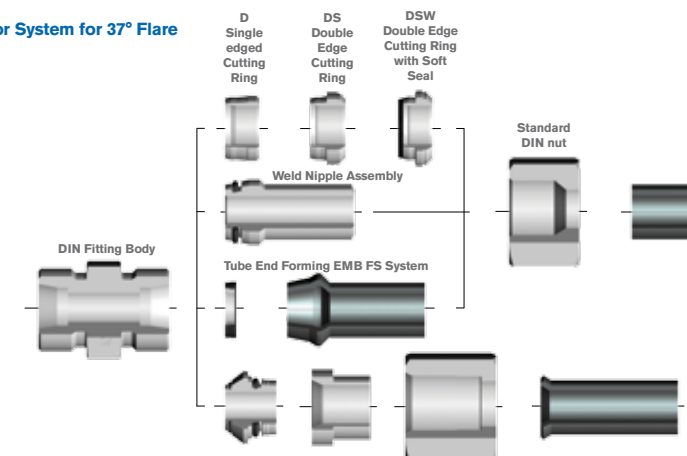
Nano Protect System



The DIN 2353 Standard



Adaptor System for 37° Flare



EMB – L Series Fittings Working Pressure up to 500 bar
EMB – S series Fittings Working pressures up to 800 bar
Size Range 6mm O.D – 42mm O.D

COMPRESSION FITTINGS

ADAPTORS

Metric Tube Compression Fittings

Manufactured to the highest standards, all compression fittings conform to the international standard EN ISO 8434-1 (DIN 2353), and conform to the latest EU regulations on the restricted use of hazardous substances. New surface treatments use non-harmful alternatives to Chromium-6, selected to offer improved levels of corrosion resistance.



Male Stud Couplings
BSP Parallel

Form E Light Series L	Tube OD	BSP Male
GE6PLRED	6mm	1/8"
GE8PLRED	8mm	1/4"
GE10PLRED	10mm	1/4"
GE12PLRED	12mm	3/8"
GE15PLRED	15mm	1/2"
GE18PLRED	18mm	1/2"
GE22PLRED	22mm	3/4"
GE28PLRED	28mm	1"
GE35PLRED	35mm	1.1/4"
GE42PLRED	42mm	1.1/2"



Tube to Tube Equal
Straight

Light Series L	Tube OD
G6PL	6mm
G8PL	8mm
G10PL	10mm
G12PL	12mm
G15PL	15mm
G18PL	18mm
G22PL	22mm
G28PL	28mm
G35PL	35mm
G42PL	42mm



Tube to Tube Equal Tee

Light Series L	Tube OD
T6PL	6mm
T8PL	8mm
T10PL	10mm
T12PL	12mm
T15PL	15mm
T18PL	18mm
T22PL	22mm
T28PL	28mm
T35PL	35mm
T42PL	42mm



Bulkhead Straight

Light Series L	Tube OD
SV6PL	6mm
SV8PL	8mm
SV10PL	10mm
SV12PL	12mm
SV15PL	15mm
SV18PL	18mm
SV22PL	22mm
SV28PL	28mm
SV35PL	35mm
SV42PL	42mm

Male Stud Couplings
BSP Parallel

Form E Heavy Series S	Tube OD	BSP Male
GE6PSRED	6mm	1/4"
GE8PSRED	8mm	1/4"
GE10PSRED	10mm	3/8"
GE12PSRED	12mm	3/8"
GE14PSRED	14mm	1/2"
GE16PSRED	16mm	1/2"
GE20PSRED	20mm	3/4"
GE25PSRED	25mm	1"
GE30PSRED	30mm	1.1/4"
GE38PSRED	38mm	1.1/2"

Tube to Tube Equal
Straight

Heavy Series S	Tube OD
G6PS	6mm
G8PS	8mm
G10PS	10mm
G12PS	12mm
G14PS	14mm
G16PS	16mm
G20PS	20mm
G25PS	25mm
G30PS	30mm
G38PS	38mm

Tube to Tube Equal Tee

Heavy Series S	Tube OD
T6PS	6mm
T8PS	8mm
T10PS	10mm
T12PS	12mm
T14PS	14mm
T16PS	16mm
T20PS	20mm
T25PS	25mm
T30PS	30mm
T38PS	38mm

Bulkhead Straight

Heavy Series S	Tube OD
SV6PS	6mm
SV8PS	8mm
SV10PS	10mm
SV12PS	12mm
SV14PS	14mm
SV16PS	16mm
SV20PS	20mm
SV25PS	25mm
SV30PS	30mm
SV38PS	38mm



Bulkhead Elbow

Light Series L	Tube OD
WSV6PL	6
WSV8PL	8
WSV10PL	10
WSV12PL	12
WSV15PL	15
WSV18PL	18
WSV22PL	22
WSV28PL	28
WSV35PL	35
WSV42PL	42

Bulkhead Elbow

Heavy Series S	Tube OD
WSV6PS	6
WSV8PS	8
WSV10PS	10
WSV12PS	12
WSV14PS	14
WSV16PS	16
WSV20PS	20
WSV25PS	25
WSV30PS	30
WSV38PS	38



Stud Standpipe Adaptor
BSP Parallel

Light Series L	Tube OD	BSP Male
EVGE6PLRED	6mm	1/8"
EVGE8PLRED	8mm	1/4"
EVGE10PLRED	10mm	1/4"
EVGE12PLRED	12mm	3/8"
EVGE15PLRED	15mm	1/2"
EVGE18PLRED	18mm	1/2"
EVGE22PLRED	22mm	3/4"
EVGE28PLRED	28mm	1"
EVGE35PLRED	35mm	1.1/4"
EVGE42PLRED	42mm	1.1/2"



Stud Standpipe Adaptor
BSP Parallel

Heavy Series S	Tube OD	BSP Male
EVGE6PSRED	6mm	1/4"
EVGE8PSRED	8mm	1/4"
EVGE10PSRED	10mm	3/8"
EVGE12PSRED	12mm	3/8"
EVGE14PSRED	14mm	1/2"
EVGE16PSRED	16mm	1/2"
EVGE20PSRED	20mm	3/4"
EVGE25PSRED	25mm	1"
EVGE30PSRED	30mm	1.1/4"
EVGE38PSRED	38mm	1.1/2"

Adaptors

High quality, market leading hydraulic adaptors.

- Manufactured from steel BS EN 10277:3 1999 230 MOPb and conforming to recognised international standards
- Surface treatment Chromium-6 free conforming to EU regulations

Male x Male Adaptors



BSP Male/Male Equal

Part No	Thread A	Thread B
KB02	1/8"	1/8"
KB04	1/4"	1/4"
KB06	3/8"	3/8"
KB08	1/2"	1/2"
KB10	5/8"	5/8"
KB12	3/4"	3/4"
KB16	1"	1"
KB20	1.1/4"	1.1/4"
KB24	1.1/2"	1.1/2"
KB32	2"	2"



BSP Male x JIC Male

Part No	Thread A	Thread B
KBJ0404	1/4"	7/16"
KBJ0405	1/4"	1/2"
KBJ0406	1/4"	9/16"
KBJ0408	1/4"	3/4"
KBJ0604	3/8"	7/16"
KBJ0605	3/8"	1/2"
KBJ0606	3/8"	9/16"
KBJ0608	3/8"	3/4"
KBJ0610	3/8"	7/8"
KBJ1210	3/4"	7/8"
KBJ0808	1/2"	3/4"
KBJ0810	1/2"	7/8"
KBJ0812	1/2"	1.1/16"
KBJ1210	3/4"	7/8"
KBJ1212	3/4"	1.1/16"
KBJ1216	3/4"	15/16"
KBJ1616	1"	15/16"



BSP Male/Male Unequal

Part No	Thread A	Thread B
KB0204	1/8"	1/4"
KB0206	1/8"	3/8"
KB0406	1/4"	3/8"
KB0408	1/4"	1/2"
KB0608	3/8"	1/2"
KB0610	3/8"	5/8"
KB0810	1/2"	5/8"
KB0820	1/2"	1.1/4"
KB0412	1/4"	3/4"
KB0612	3/8"	3/4"
KB0812	1/2"	3/4"
KB1012	5/8"	3/4"
KB1016	5/8"	1"
KB0616	3/8"	1"
KB0816	1/2"	1"
KB1216	3/4"	1"
KB1220	3/4"	1.1/4"
KB1620	1"	1.1/4"
KB1224	3/4"	1.1/2"
KB1624	1"	1.1/2"
KB2024	1.1/4"	1.1/2"
KB1632	1"	2"
KB2032	1.1/4"	2"
KB2432	1.1/2"	2"



BSP Straight Bulkhead

Part No	Thread A	Thread B
KBH02	1/8"	1/8"
KBH04	1/4"	1/4"
KBH06	3/8"	3/8"
KBH08	1/2"	1/2"
KBH10	5/8"	5/8"
KBH12	3/4"	3/4"
KBH16	1"	1"



BSP Male x BSP Male Taper

Part No	Thread A	Thread B
KB0202T	1/8"	1/8"
KB0402T	1/4"	1/8"
KB0404T	1/4"	1/4"
KB0406T	1/4"	3/8"
KB0408T	1/4"	1/2"
KB0604T	3/8"	1/4"
KB0606T	3/8"	3/8"
KB0608T	3/8"	1/2"
KB0804T	1/2"	1/4"
KB0806T	1/2"	3/8"
KB0808T	1/2"	1/2"
KB0812T	1/2"	3/4"
KB1208T	3/4"	1/2"
KB1212T	3/4"	3/4"
KB1216T	3/4"	1"
KB1220T	3/4"	1.1/4"
KB1612T	1"	3/4"
KB1616T	1"	1"
KB1620T	1"	1.1/4"
KB2020T	1.1/4"	1.1/4"
KB2024T	1.1/4"	1.1/2"
KB2424T	1.1/2"	1.1/2"
KB3232T	2"	2"



BSP Male/Male
90° Compact Elbow

Part No	Thread A	Thread B
KB040490C	1/4"	1/4"
KB060690C	3/8"	3/8"
KB080890C	1/2"	1/2"
KB101090C	5/8"	5/8"
KB121290C	3/4"	3/4"
KB161690C	1"	1"

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