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The Right Connection™

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The Right Connection™



## Shouldered Piping Systems and Coupling

In today's world of mining and mineral processing, the process of facility design and engineering moves at a rapid pace. Fast track construction is often the rule, not the exception. When it comes to piping, **The Minsup™ Shouldered Piping System** can help you manage those accelerated schedules whilst meeting or exceeding design standards, saving you money in the process.

The range comprises: shouldered pipe, shouldered valves, 2 and 4 bolt couplings, quick release couplings and **the new** interlock shouldered couplings.

Distributed By:

## Quick Release Couplings

### Material Specifications

**Housing:** SG Iron - ISO 1083:400-250-15 SGI  
**Lever:** SG Iron - ISO 1083:400-250-15 SGI  
**Side Plates:** 4" & 6" - ISO 1083:400-250-15 SGI

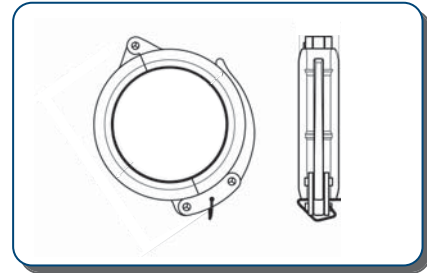
**Gasket:** Other sizes are pressed mild steel.  
 Buna-N  
**Finish:** Zinc Plated

### Benefits

- No bolts and nuts to be lost, or threads to be damaged. No tools required.
- Improved lever and hinge design significantly reduces opening and closing effort.
- Internal mating tongue and groove feature prevents seal pinching during closure.

Nominal Bore	OD	Working* Pressure	Part #
mm	mm	MPa	
50	60.3	2.4	08/048/19/000G
80	88.9	2.4	08/048/19/002G
100	114.3	2.4	08/048/19/003G
150	165.1	2.4	08/048/19/005G
200	219.1	2.4	08/048/19/006G

\*Working pressure (capacity) as tested to AWWA C606 requirements for grooved and shouldered joints  
 Safety factor of 3:1 on burst pressure.



Front and Side view of Quick Release Coupling



Quick Release Coupling

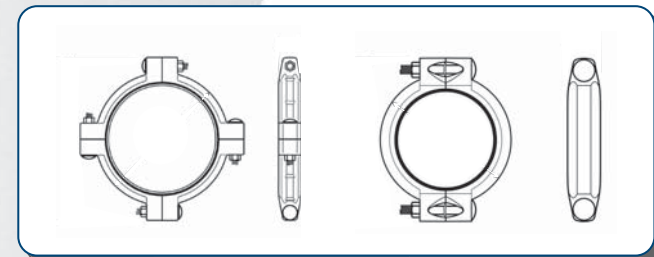
## Bolted Couplings

### Material Specifications

Material: SG iron to ISO 1083:400-250-15 SGI. Bolts & Nuts: Metric; grade 4.6 to AS1112.



Bolted Coupling

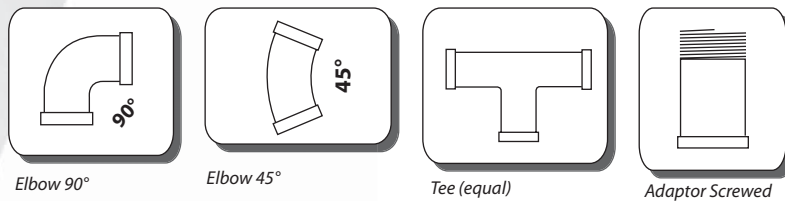


Top and Side view of Bolted Coupling

Nominal Bore	OD	Working Pressure		Part #
		MPa	psi	
50	60.3	5.2	755	08/048/20/000
80	88.9	5.2	755	08/048/20/002
100	114.3	5.2	755	08/048/20/003
150	165.1	4.0	580	08/048/20/005
200	219.1	4.0	580	08/048/20/006
250	273.1	1.8	260	08/048/20/007
300	323.9	1.6	230	08/048/20/008
350	355.6	1.6	230	08/048/20/020
400	406.4	1.6	230	08/048/20/021
450	457.0	1.6	230	08/048/20/022
500	508.0	1.6	230	08/048/20/023
600	609.6	1.6	230	08/048/20/024

Working pressure (capacity) as tested to AWWA C606 requirements. Safety factor of 3:1

## Shouldered Piping Systems Accessories



Also available in the Minsup™ Shouldered Piping System range:

- Offset Tee - Flanged Adaptor - Blank end - Setting Piece
- Y piece - Concentric Reducers - Cross

## Minsup Ball Valve / Butterfly Valves



BSP F x 2" Shouldered

BSP F 1" x 2" Shouldered

2" Shouldered x 2" Shouldered

Shoulder Lever Operated Butterfly Valve

Shouldered Gate Valve

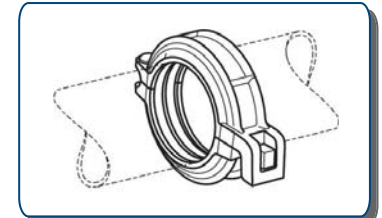
## Interlock Shouldered Couplings for Joining Shouldered Pipes

NEW!

A major advancement in the joining of shouldered pipes has been brought about by the unique features of the Interlock Shouldered Coupling. The unique split hinge construction allows the coupling to be assembled from one side so that an adjacent pipe or even a wall will not interfere with installation or removal.



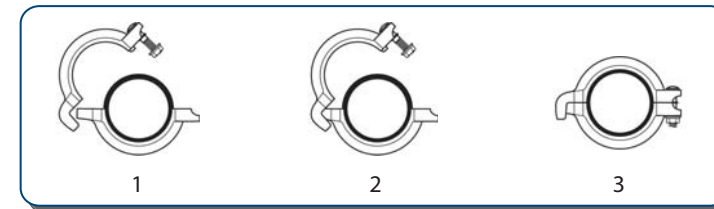
Interlock Coupling



Interlock Coupling and shouldered Pipe

### Features

- Very easy to install.
- No loose parts. Captive washer on the nut and the bolt is retained in the housing.
- Suitable for pressure or vacuum applications.
- Single bolt design.
- 'No Pinch' housing design assures a positive gasket seal.
- High pressure applications.
- Patented design.
- **3 simple steps to assemble**



### Specifications

**Housing Material:** Ductile iron to ISO 1083  
**Bolts:** High Tensile  
**Finish:** Electro Galvanised  
**Safety Factor:** 3:1

Pipe Size DN	Pipe OD (mm)	Part #	Working Pressure	
			MPa	PSI
50	60.3	FKG-502L-65	3.5	500
80	88.9	FKG-502L-88	3.5	500
100	114.3	FKG-502L-114	3.5	500
150	165.1	FKG-502L-165	2.5	360
200	219.1	FKG-502L-219	2.5	360

## Shouldered Mining Pipe

NEW!

Dixon Shouldered Mining Pipe has been designed for use in underground and surface mining applications. It is robust, yet lightweight, for easy handling, delivering reduced labour and freight costs.

**Materials:** BS 1387:1985 - Standard specifications for screwed and socketed steel tubes and tubulars and for plain end steel tube suitable for welding and for screwing to BS21 pipe threads.

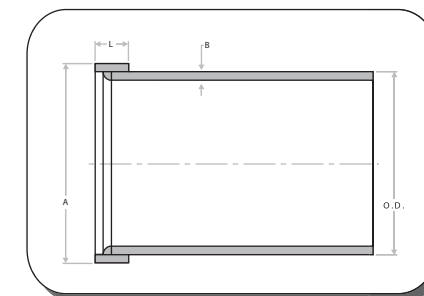
**Max Working Pressure:** 3500 KPa

**Hot Dip Galvanised:** Min. 300g/m<sup>2</sup> coverage conforming to AS/NZS 4792 - Hot dipped galvanised (zinc) coating on ferrous hollow section, applied by a continuous or a specialised process.

### Dimensional Characteristics

inch	mm	NB			OD			A (mm)			B (mm)	L (mm)
		basic	min	max	basic	min	max	basic	min	max		
4	100	114.3	113.2	115.4	122.00	121.20	122.80	2.0	17.5			
6*	150	165.1	163.4	166.8	174.50	173.70	175.30	2.5	17.5			

\* Australian pipe sizes



Shouldered Mining Pipe