

DEWATERING & CONSTRUCTION

Industry Guide



WHO WE ARE.

Motion delivers a world-class customer-first approach to everything we do. This has firmly established our business as the leader in the market, providing excellence and expertise in industrial products, solutions and services.

For more than 100 years we have been a feature in the Australian industrial landscape giving customers unmatched products and service through an integrated network of branches, workshops and service centres.

We have an ongoing commitment to invest in our people, facilities, IT and systems to ensure we can continue to offer a broad ranging and premium level of engineering design, servicing and turnkey projects to our customers across Australia.

We are committed and proud to keep our customers in motion, every day of the year.

“WE KEEP THE WORLD MOVING”



EXITFLEX® EF637 CORRUGATED WATER SUCTION & DELIVERY HOSE

A short length suction and delivery soft ended hose ideally suited for temporary or permanent water transfer applications e.g. pump rentals.



Part Number	ID	Nom. OD	Working Pressure		Vacuum Rating	Bend Radius	Weight	Length	Cut Policy
	mm	mm	psi	bar	in/hg	mm	kg/m	metres	metres
10-220-076-***	76.2	89.0	150	10	26.58	370	1.61	3/6	0
10-220-102-***	101.6	115.0	150	10	26.58	490	1.92	3/6	0
10-220-152-***	152.4	167.0	150	10	23.62	640	3.92	3/6	0
10-220-203-***	203.2	221.0	150	10	20.67	800	7.00	3/6	0
10-220-254-***	254.0*	278.0	150	10	29.92	1395	21.83	3/6	0
10-220-305-***	304.8*	328.0	150	10	29.92	1675	26.29	3/6	0

REINFORCEMENT: High tensile textile cord with steel wire helix

INNER TUBE: Black smooth synthetic rubber

COVER: Black corrugated synthetic rubber

SAFETY FACTOR: 3:1

TEMPERATURE: - 20°C to +80°C

*sizes – 20°C to +70°C”

ADVANTAGES:

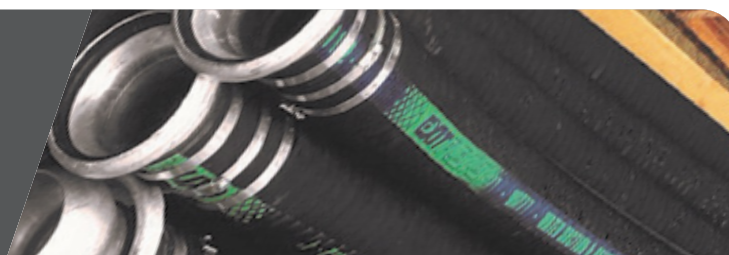
- Excellent resistance to ageing, atmospheric conditions and ozone
- Easy to handle lengths
- Soft cuffed ends for ease of fitting insertion

NOTES: *size – Optima® branded

EXITFLEX EF637 CORRUGATED CONTRACTOR WATER SUCTION HOSE ASSEMBLIES

Available soon in crimped assemblies.

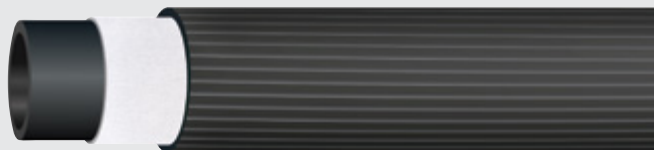
**Other assemblies available on request



Part Number	ID	Nom. OD	Fittings				Attachment Method	Assembly Length
	mm	mm	type	style	type	style	type	metres
10-220-9102-003MF	101.6	115.0	Bauer	Female	Bauer	Male	Banding Clamp	3
10-220-9102-006MF	101.6	115.0	Bauer	Female	Bauer	Male	Banding Clamp	6
10-220-9152-003MF	152.4	167.0	Bauer	Female	Bauer	Male	Banding Clamp	3
10-220-9152-006MF	152.4	167.0	Bauer	Female	Bauer	Male	Banding Clamp	6
10-220-9203-003MF	203.2	221.0	Bauer	Female	Bauer	Male	Banding Clamp	3
10-220-9203-006MF	203.2	221.0	Bauer	Female	Bauer	Male	Banding Clamp	6

OPTIMA® HEAVY DUTY NBR LAYFLAT HOSE

Used for the transfer of water in the pump hire and civil construction industries, other applications include dewatering, temporary bypass lines and irrigation installations, as well as pumping of sludge and liquid fertiliser.



Part Number	ID	Wall Thickness	Working Pressure		Weight	Length	Cut Policy
	mm	mm	psi	bar	kg/m	metres	metres
04-800-051-***	52	2.4	200	14	0.49	100	20
04-800-076-***	76	3.2	200	14	0.87	100	20
04-800-102-***	102	3.1	150	10	1.18	20 / 100	20
04-800-152-***	152	3.8	150	10	1.8	20 / 100	20
04-800-203-***	203	4.1	150	10	3.5	20 / 100	20
04-800-254-***	254	4.5	150	10	4.7	20 / 50	0
04-800-305-***	304	4.8	150	10	5.5	20 / 50	0

REINFORCEMENT: High tensile textile cord

INNER TUBE: Black smooth NBR

COVER: Black ribbed NBR

TEMPERATURE: -20°C TO +100°C

SAFETY FACTOR: 3:1

TEMPERATURE: - 20°C to +70°C

ADVANTAGES:

- Excellent resistance to ageing, atmospheric conditions and ozone
- Tough, durable, easy to handle and maintain
- UV stabilised
- Excellent adhesion strength
- Resistance to chemicals and petroleum products

OPTIMA® HEAVY DUTY NBR LAYFLAT HOSE ASSEMBLIES

*Other fittings and attachment methods available upon request

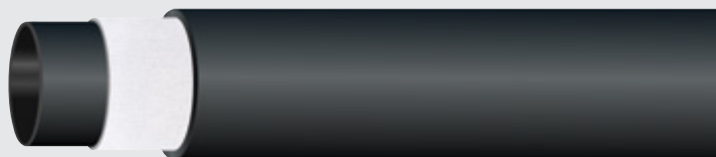


Part Number	ID	Nom. OD	Fittings				Attachment Method	Assembly Length
	mm	mm	type	style	type	style	type	metres
04-800-9076-020MFBB	76	3.2	Bauer	Male	Bauer	Female	Banding Clamps	20
04-800-9102-020MF	102	3.1	Bauer	Male	Bauer	Female	Crimped	20
04-800-9152-020MF	152	3.8	Bauer	Male	Bauer	Female	Crimped	20
04-800-9152-025MF	152	3.8	Bauer	Male	Bauer	Female	Crimped	25
04-800-9203-020MF	203	4.1	Bauer	Male	Bauer	Female	Crimped	20

OPTIMA® HEAVY DUTY BLACK POLYURETHANE LAYFLAT HOSE

Can be used for applications such as waste water bypass, water drainage, liquid fertiliser transfer as well as many other irrigation applications. The polyurethane provides excellent abrasion, UV and mildew resistance making it ideally suited for fracking water transfer in the oil and gas industry as well as dewatering applications in the mining sector.

*Other sizes available to order



Part Number	ID	Tolerance	Wall Thickness	Working Pressure		Burst Pressure		Tensile Strength	Weight	Length	Cut Policy
	mm	mm	psi	psi	bar	psi	bar	kg	kg/m	metres	metres
04-820-203-***	203	±3	3.6	150	10	450	30	31000	2.8	20 / 100	0
04-820-254-***	254	±4	3.8	150	10	450	30	51000	4.15	20 / 100	0
04-820-305-***	304	±4	4	150	10	450	30	55000	4.9	20 / 100	0

REINFORCEMENT: High tensile textile cord

INNER TUBE: Black smooth ether based TPU

COVER: Black smooth ether based TPU

SAFETY FACTOR: 3:1

TEMPERATURE: - 50°C to +80°C

STANDARDS: Proprietary standard

ADVANTAGES:

- Excellent resistance to ageing, atmospheric conditions and ozone
- UV stabilised
- Excellent abrasion and mildew resistance
- Rapid deployment and retrieval
- API certified

OPTIMA® HEAVY DUTY BLACK POLYURETHANE LAYFLAT HOSE ASSEMBLIES

*Other fittings and attachment methods available upon request

Part Number	ID	Nom. OD	Fittings				Attachment Method	Assembly Length
	mm	mm	type	style	type	style	type	metres
04-820-9203-020MFBB	203	3.6	Bauer	Male	Bauer	Female	Banding	20
04-820-9254-020MFBB	254	3.8	Bauer	Male	Bauer	Female	Banding	20
04-820-9305-020MFBB	304	4.0	Bauer	Male	Bauer	Female	Banding	20



LDH COUPLINGS

For use with Optima LDH Layflat the hardened aluminum hoesetails are an engineered system comprising of three parts that can be reused.

Product Code	Size (inches)	Description
22-065-152	6	Hosetail Hardened Alum LDH Table E Flange
22-065-203	8	Hosetail Hardened Alum LDH Table E Flange
22-065-305	12	Hosetail Hardened Alum LDH Table E Flange
22-060-152-165	6	Hosetail Hardened Alum LDH Roll Grooved Style 152mm H/T X 165.1mm
22-060-203-232	8	Hosetail Hardened Alum LDH Shouldered Style 203mm H/T X 232.0mm
22-060-305-337	12	Hosetail Hardened Alum LDH Shouldered Style 305mm H/T X 336.5mm
44-005-152	6	Clamp Safety Claw 9 Bolt Hi Press LDH
44-005-203	8	Clamp Safety Claw 9 Bolt Hi Press LDH
44-005-305	12	Clamp Safety Claw 9 Bolt Hi Press LDH



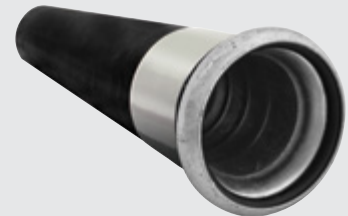
LDH Victaulic Shouldered Hosetail



LDH Heavy Duty Hose Clamp

OPTIMA® HDPE POLY PIPE HOSE

Typically used in the construction and dewatering markets for water supply. Crimped assemblies are available with Male/Female Type B Bauer couplings.



Part Number	ID	Nom. OD	Fittings		Attachment Method	Working Pressure	Weight	Assembly Length
	mm	mm	psi	bar	in/hg	mm	kg/m	metres
58-605-180-003MF	152	180	Female Bauer	Male Baurer	Crimped	PN12.5	7.16	3
58-605-180-006MF	152	180	Female Bauer	Male Baurer	Crimped	PN12.5	7.16	6
58-605-225-003MF	203	225	Female Bauer	Male Baurer	Crimped	PN10	8.17	3
58-605-225-006MF	203	225	Female Bauer	Male Baurer	Crimped	PN10	8.17	6

MATERIAL: High density black polyethylene pipe

STANDARDS: AS/NZS 4130:2009

TEMPERATURE: 30°C to +80°C

ADVANTAGES:

- WMCS 2016
- OHS advantage, light weight, assemblies are crimped

SUNNYHOSE® LIGHT DUTY BLUE PVC LAYFLAT

A light duty, general purpose hose with a single layer construction which allows the hose to be pierced without causing delamination, making it ideal for trickle irrigation. It is also suitable for light duty dewatering applications and temporary water supply or drainage lines of locations with relatively small differences in elevation.



Part Number	ID	Wall Thickness	Working Pressure		Weight	Length	Cut Policy
	mm	mm	psi	bar	kg/m	metres	metres
04-000-025-***	26	1.5	100	7	0.17	100	20
04-000-032-***	33	1.5	100	7	0.20	100	20
04-000-038-***	41	1.2	70	5	0.21	100	20
04-000-051-***	53	1.3	65	4.5	0.27	100	20
04-000-063-***	66	1.5	56	4	0.38	100	20
04-000-076-***	78	1.7	56	4	0.53	100	20
04-000-102-***	104	1.8	56	4	0.71	100	20
04-000-127-***	128	1.9	42	3	0.94	100	0
04-000-152-***	155	2.0	42	3	1.18	100	10
04-000-203-***	207	2.2	42	3	1.79	100	10
04-000-254-***	257	2.7	36	2.5	2.65	100	10
04-000-305-***	308	2.6	29	2	2.91	100	10

REINFORCEMENT: High tensile textile cord

INNER TUBE: Blue smooth PVC

COVER: Blue smooth PVC

SAFETY FACTOR: 3:1

TEMPERATURE: - 20°C to +54°C

ADVANTAGES:

- Light weight
- High quality
- For low pressure applications
- Suitable for trickle irrigation

SUNNYHOSE® LIGHT DUTY RED PVC LAYFLAT

Has excellent abrasion resistance allowing it to be used in heavy duty dewatering applications where water may be mixed with solid particles.



Part Number	ID	Wall Thickness	Working Pressure		Weight	Length	Cut Policy
	mm	mm	psi	bar	kg/m	metres	metres
04-010-038-***	40	1.9	150	10	0.30	100	20
04-010-051-***	53	2.0	150	10	0.42	100	20
04-010-063-***	66	2.2	150	10	0.70	100	20
04-010-076-***	79	2.3	130	9	0.85	100	20
04-010-102-***	104	2.6	130	9	1.40	100	20
04-010-152-***	155	3.0	100	7	2.00	100	10
04-010-203-***	207	3.0	70	5	2.80	100	10

REINFORCEMENT: High tensile textile cord

INNER TUBE: Red smooth PVC

COVER: Red smooth PVC

SAFETY FACTOR: 3:1

TEMPERATURE: - 20°C to +54°C

ADVANTAGES:

- Heavy duty
- Abrasion resistant

EXITFLEX® LIGHT DUTY BLUE PVC LAYFLAT

Suitable for temporary water supply or drainage and light duty dewatering applications. It is ideally suited for use as a low pressure water transfer hose in the mining, construction and hire industries.



Part Number	ID	Wall Thickness	Working Pressure		Weight	Length	Cut Policy
	mm	mm	psi	bar	kg/m	metres	metres
04-005-025-***	26	1.5	100	7	0.17	100	20
04-005-032-***	33	1.5	100	7	0.20	100	20
04-005-038-***	41	1.2	70	5	0.21	100	20
04-005-051-***	53	1.3	65	4	0.27	100	20
04-005-063-***	66	1.5	56	4	0.38	100	20
04-005-076-***	78	1.7	56	4	0.53	100	20
04-005-102-***	104	1.8	56	4	0.71	100	20
04-005-152-***	155	2.0	42	3	1.18	100	10
04-005-203-***	207	2.2	42	3	1.79	100	10

REINFORCEMENT: High tensile textile cord

INNER TUBE: Blue smooth PVC

COVER: Blue smooth PVC

SAFETY FACTOR: 3:1

TEMPERATURE: - 20°C to +60°C

ADVANTAGES:

- Light weight
- High quality
- For low pressure applications

EXITFLEX® LIGHT DUTY BLUE PVC LAYFLAT ASSEMBLIES

*Other fittings and attachment methods available upon request



Part Number	ID	Nom. OD	Fittings				Attachment Method	Assembly Length
	mm	mm	type	style	type	style	type	metres
04-005-9051-020CEC	53	1.3	Camlock	Male	Camlock	Female	Crimped	20
04-005-9076-020CEC	78	1.7	Camlock	Male	Camlock	Female	Crimped	20
04-005-9102-020CEC	104	1.8	Camlock	Male	Camlock	Female	Crimped	20

EXITFLEX® LIGHT DUTY RED PVC LAYFLAT

Well suited for water drainage at open pit mining and civil construction sites where water must be moved to significantly higher or lower elevations. It is ideally suited for use as a high pressure water transfer hose in the mining, construction and hire industries.



Part Number	ID	Wall Thickness	Working Pressure @ 20°C		Weight	Length	Cut Policy
	mm	mm	psi	mPa	kg/m	metres	metres
04-015-038-***	40	1.9	150	10	0.30	100	20
04-015-051-***	53	2.0	150	10	0.42	100	20
04-015-063-***	66	2.2	150	10	0.70	100	20
04-015-076-***	79	2.3	130	9	0.85	100	20
04-015-102-***	104	2.6	130	9	1.40	100	20
04-015-152-***	155	3.0	100	7	2.00	100	10
04-015-203-***	207	3.0	70	5	2.80	100	10

REINFORCEMENT: High tensile textile cord

INNER TUBE: Red smooth PVC

COVER: Red smooth PVC

SAFETY FACTOR: 3:1

TEMPERATURE: - 20°C to +60°C

ADVANTAGES:

- Heavy duty
- Abrasion resistant

EXITFLEX® LIGHT DUTY RED PVC LAYFLAT ASSEMBLIES

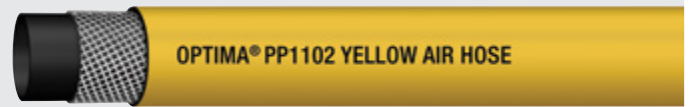
*Other fittings and attachment methods available upon request



Part Number	ID	Nom. OD	Fittings				Attachment Method	Assembly Length
	mm	mm	type	style	type	style	type	metres
04-015-9051-020CEC	53	2.0	Camlock	Male	Camlock	Female	Crimped	20
04-015-9076-020CEC	79	2.3	Camlock	Male	Camlock	Female	Crimped	20
04-015-9102-020CEC	104	2.6	Camlock	Male	Camlock	Female	Crimped	20

OPTIMA® PP1102 YELLOW PNEUMATIC AIR HOSE

Designed for use on stationary and mobile compressors operating pneumatic tools in areas such as quarries, mining, civil and road construction.



Part Number	ID	Nom. OD	Working Pressure		Bend Radius	Weight	Length	Cut Policy
	mm	mm	psi	bar	mm	kg/m	metres	metres
08-000-012-***	12.7	20	300	20	85	0.32	20 / 100	1
08-000-019-***	19.1	30	300	20	125	0.71	20 / 100	1
08-000-025-***	25.4	36	300	20	160	0.87	20 / 100	1

REINFORCEMENT: High tensile textile cord

INNER TUBE: Black smooth SBR blend

COVER: Clear smooth PVC-P

SAFETY FACTOR: 3:1

TEMPERATURE: - 20°C to +70°C

ADVANTAGES:

- Very flexible at low temperatures
- Highly visible safety yellow outer cover
- Good resistance to abrasion and atmospheric conditions




OPTIMA® PP1500 YELLOW PNEUMATIC AIR HOSE ASSEMBLIES

Part Number	ID	Length	End 1	Attachment Method
	mm	metres		
08-000-9019-020AS	19.1	20	3/4" Type A Claw Coupling	Safety Interlocking Claw Clamp
08-000-9025-020AS	25.4	20.1	1" Type A Claw Coupling	Safety Interlocking Claw Clamp

BAUER TYPE B COUPLINGS

Bauer Type B Couplings are a cost effective, quick connect/disconnect system that takes 3 simple movements to engage and lock the coupling, compressing the sealing ring to ensure a leak-proof joint under suction or pressure @ 150 psi (10 Bar).

Applications include temporary and emergency water supply lines, sewerage and sludge by-pass lines and suction and delivery lines for site dewatering in industries including mining, tunneling, waste removal and general civil works.





BAUER TYPE B COUPLINGS

Bauer couplings are quick action fittings with four parts; male ball, closure ring, female socket and sealing ring.

Stainless steel made to order also available on request.

Size (Inches)	Zinc Alloy Coupling Parts			
	Male Ball x Hosetail	Female x Hosetail (inc Seal)	Closure Rings	Replacement Seals
2	21-510-032	21-520-032	21-530-032	21-540-032
3	21-510-048	21-520-048	21-530-048	21-540-048
4	21-510-064	21-520-064	21-530-064	21-540-064
5	21-510-080	21-520-080	21-530-080	21-540-080
6	21-510-096	21-520-096	21-530-096	21-540-096
8	21-510-128	21-520-128	21-530-128	21-540-128
10	21-510-160	21-520-160	21-530-160	21-540-160
12	21-510-192	21-520-192	21-530-192	21-540-192






BAUER TYPE B COUPLINGS




Bauer couplings are quick action fittings with four parts; male ball, closure ring, female socket and sealing ring.




Stainless steel made to order also available on request.


Size (Inches)	Zinc Alloy Coupling Parts	
	Male Ball x Hosetail	Female x Hosetail (inc Seal)
2	21-550-032*	21-560-032*
3	21-550-048*	21-560-048*
4	21-550-064	21-560-064
6	21-550-096	21-560-096
8	21-550-128	21-560-128
10	21-550-160	21-560-160
12	21-550-192	21-560-192

*Table D/E



 BAUER TYPE B COUPLINGS - VARIOUS PARTS	Size (Inches)	Zinc Alloy Coupling Parts	
		Female End Cap (Seal incl.)	Male Plug
	3	21-590-048	21-591-048
	4	21-590-064	21-591-064
	6	21-590-096	21-591-096
	8	21-590-128	21-591-128
			

 BAUER TYPE B STRAINERS	Size (Inches)	Zinc Alloy Coupling Parts	
		Aluminium Split Strainer (Fits inside Female Socket)	Strainer c/w closure ring (Suit Female Socket)
	4	21-600-064	21-601-064
	6	21-600-096	21-601-096
	8	21-600-128	21-601-128
	10	-	21-601-160
	12	-	21-601-192
			

 BAUER TYPE B STRAINERS	Size (Inches)	Zinc Alloy Coupling Parts	
		Female x Male Enlarger	Female x Male Reducer
	3 x 4	21-620-048-064	-
	4 x 3	-	21-621-064-048
	4 x 6	21-620-064-096	-
	6 x 4	-	21-621-094-064
	6 x 8	21-620-096-128	-
	8 x 6	-	21-621-128-096
	8 x 10	21-620-128-160	-
	10 x 8	-	21-621-160-128
	10 x 12	21-620-160-192	-
	12 x 10	-	21-621-192-160



**BAUER TYPE B
COUPLINGS ELBOWS**

Size (Inches)	Zinc Alloy Coupling Parts	
	45° Male x Female	90° Male x Female
3	21-562-048	21-561-048
4	21-562-064	21-561-064
6	21-562-096	21-561-096
8	21-562-128	21-561-128
10	21-562-160	21-561-160
12	21-562-192	21-561-192



**BAUER TYPE B
COUPLINGS**

Bauer Type B coupling tee joint male branch C/W O'ring and closure rings

Size (Inches)	Zinc Alloy Coupling Parts
	Tee Branch
4	21-566-064
6	21-566-096
8	21-566-128
10	21-566-160
12	21-566-192



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