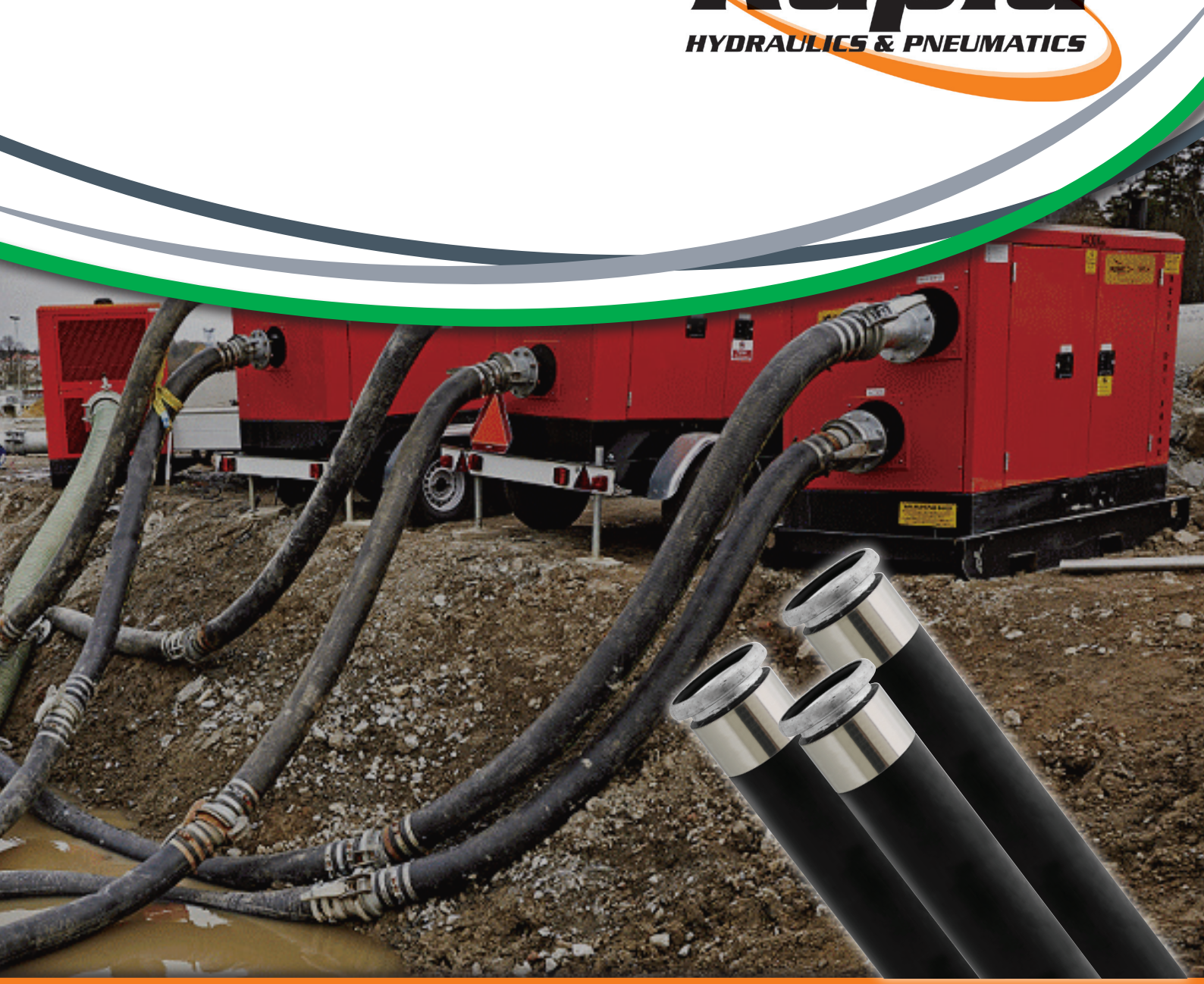
Rapid®
HYDRAULICS & PNEUMATICS



Dewatering & Construction Guide

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WATER SUCTION HOSE

REINFORCEMENT: High tensile textile braid with embedded wire helix.
INNER TUBE: Black NR/SBR Blend
COVER: Black NR/SBR Blend
BRANDING: Green layline
TEMPERATURE: -20°C to +80°C

ADVANTAGES:
- Highly flexible compared to standard water suction hoses.
- Easy to handle lengths.
- Soft 'cuffed' ends for ease of fitting insertion.
- 3:1 safety factor.

Exitflex EF637 Corrugated Water Suction

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

Code	ID	Nom. OD	Working Pressure @ 20°C	Weight	Bend Radius	Length
	mm	mm	psi (mPa)	kg/m	mm	metres
10-220-076-***	76	89.0	150 (1.0)	0.54	1140	3, 6
10-220-102-***	102	115.0	150 (1.0)	0.60	1530	3, 6
10-220-152-***	152	167.0	150 (1.0)	0.67	2280	3, 6
10-220-203-***	203	221.0	150 (1.0)	0.94	3050	3, 6
10-220-254-***	254	278.0	150 (1.0)	2.00	3810	3, 6
10-220-305-***	305	328.0	100 (0.7)	3.10	4580	3

Exitflex EF637 Corrugated Contractor Water Suction Hose Assemblies

Assemblies can come fitted with Male & Female Bauer Type B Coupling & Flanged Ends.

NB: Other fitting combinations available on request.

Pre-made Hose Assemblies Code	ID	Length	Assembly Working Pressure @ 20°C	Fittings		Attachment Method
	mm	metres	psi	end 1	end 2	
10-220-9076-***MF	76	3, 6	150	Male Bauer Type B	Female Bauer Type B	Band-it Clamped
10-220-9102-***MF	102	3, 6	150	Male Bauer Type B	Female Bauer Type B	Band-it Clamped
10-220-9152-***MF	152	3, 6	150	Male Bauer Type B	Female Bauer Type B	Band-it Clamped
10-220-9152-***MFV	152	3, 6	150	Male Bauer Type B	Galv Foot Valve	Band-it Clamped
10-220-9152-***-FF*	152	3, 6	150	Table D or E Flange	Table D or E Flange	Band-it Clamped
10-220-9203-***MF	203	3, 6	150	Male Bauer Type B	Female Bauer Type B	Band-it Clamped
10-220-9203-***-FF*	203	3, 6	150	Table D or E Flange	Table D or E Flange	Band-it Clamped
10-220-9254-***MF	254	3, 6	150	Male Bauer Type B	Female Bauer Type B	Band-it Clamped
10-220-9305-***MF	305	3	150	Male Bauer Type B	Female Bauer Type B	Band-it Clamped

MATERIAL: High density black polyethylene pipe
STANDARDS: AS/NZS 4130:2009
TEMPERATURE: -30°C to +80°C

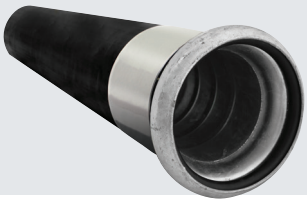
ADVANTAGES:
- WMCS 2016.
- OHS advantage, light weight, assemblies are crimped.

OPTIMA® Dewatering Polypipe 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	OD	Working Pressure (PN RATING)	Weight	Length
	mm	mm		kg/m	mtr
58-605-180-003	152	180	PN 12.5	7.16	3
58-605-180-006	152	180	PN 12.5	7.16	6
58-605-225-003	203	225	PN 10	8.17	3
58-605-225-006	203	225	PN 10	8.17	6

OPTIMA® Dewatering Polypipe Hose Assemblies



Pre-made Hose Assemblies Code	ID	OD	Fittings		Attachment Method	Length
	mm	mm	end 1	end 2		
58-605-9180-003MF	152	180	Female Bauer	Male Bauer	Crimped	3
58-605-9180-006MF	152	180	Female Bauer	Male Bauer	Crimped	6
58-605-9225-003MF	203	225	Female Bauer	Male Bauer	Crimped	3
58-605-9225-006MF	203	225	Female Bauer	Male Bauer	Crimped	6

REINFORCEMENT: High strength circular woven textile braid
INNER TUBE: Black nitrile
COVER: Black nitrile
TEMPERATURE: -30°C to +80°C

ADVANTAGES:
- Abrasion resistant.
- UV stabilised.
- Minimal friction loss.
- Non-conductive.

OPTIMA® Heavy Duty NBR Layflat Hose

General purpose rubber covered layflat hose used for the transfer of water in the pump hire and civil construction industries, other applications include dewatering, temporary bypass lines, irrigation installations as well as pumping of sludge and liquid fertilizer.

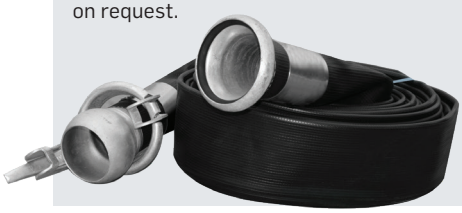
NB: Longer lengths available to order upon request.

Part Number	ID	Wall Thickness	Working Pressure		Weight	Bend Radius	Length
	mm	mm	psi	bar	kg/m	mm	mtr
04-800-051-***	51	2.0	150	10	0.31	700	100
04-800-076-***	76	2.0	150	10	0.45	1100	100
04-800-102-***	102	2.5	150	10	0.68	1450	20, 100
04-800-152-***	152	2.5	150	10	0.95	1700	20, 100
04-800-203-***	203	3.0	150	10	1.65	2250	100
04-800-254-***	254	3.0	150	10	2.25	3000	50
04-800-305-***	305	3.0	150	10	3.25	3300	50

OPTIMA® Heavy Duty NBR Layflat Hose Assemblies

Hoses can also be supplied as assemblies complete with male and female Bauer Type B couplings.

NB: Other fitting combinations available on request.



Pre-made Hose Assemblies Code	ID	Length	Assembly Working Pressure @ 20°C		Fittings		Attachment Method
	mm	metres	psi	bar	end 1	end 2	
04-800-9076-020MF	76	20	150	10	Male Bauer Type B	Female Bauer Type B	Crimped
04-800-9102-020MF	102	20	150	10	Male Bauer Type B	Female Bauer Type B	Crimped
04-800-9152-010MF	152	10	150	10	Male Bauer Type B	Female Bauer Type B	Crimped
04-800-9152-020MF	152	20	150	10	Male Bauer Type B	Female Bauer Type B	Crimped
04-800-9152-025MF	152	25	150	10	Male Bauer Type B	Female Bauer Type B	Crimped
04-800-9203-020MF	203	20	150	10	Male Bauer Type B	Female Bauer Type B	Crimped

These pre made quality Layflat Assemblies come complete with male and female aluminum camlock couplings.

REINFORCEMENT: High strength yarn
CONSTRUCTION: PVC compound
INNER TUBE: PVC compound
COVER: Blue
TEMPERATURE: -10°C to +60°C
PACKAGING: 51mm / 76mm / 102mm x 20 metre length

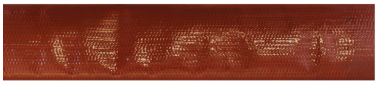
ADVANTAGES:
- Quality low pressure / discharge PVC blue layflat hose.
- Pre-assembled with camlock coupling each end.
- User friendly length of 20 metres.

Blue Layflat Hose Assemblies

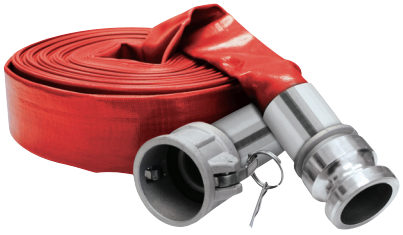
51mm / 76mm / 102mm Low Pressure Hose

Suitable for applications in general industry, building and construction environments.

Pre-made Hose Assemblies Part Number	ID	Lengths	Ends	Attachment Method
	mm	metres		
04-000-9050-020CEW	51	20	Male & Female Aluminium Camlock	Crimped
04-000-9076-020CEW	76	20	Male & Female Aluminium Camlock	Crimped
04-000-9102-020CEW	102	20	Male & Female Aluminium Camlock	Crimped



Tough, abrasion resistant hose, with working pressure in the range of 130-152 PSI. Well suited for water drainage at open pit mining and at civil engineering / dam construction sites in mountains or other areas where water must be moved to significantly higher or lower elevations.



REINFORCEMENT: High strength yarn
CONSTRUCTION: PVC compound
INNER TUBE: PVC compound
COVER: Red
TEMPERATURE: -10°C to +60°C
PACKAGING: 51mm / 76mm / 102mm x 20 metre length

ADVANTAGES:
- Pre-made - ready to use.
- Long lasting - tough, abrasion resistant red hose.
- Versatile - water draining, water transfer, water discharge in construction, agriculture, mining etc.
- Higher pressure rating than standard blue layflat (2"-130 PSI, 3"-130 PSI, 4"-130 PSI).
- User friendly length of 20 metres.

Red Layflat Hose Assemblies

51mm / 76mm / 102mm High Pressure Hose

Suitable for applications where a heavier duty abrasion resistant transfer hose is required.

Pre-made Hose Assemblies Part Number	ID	Lengths	Ends	Attachment Method
	mm	metres		
04-010-9050-020CEW	51	20	Male & Female Aluminium Camlock	Crimped
04-010-9076-020CEW	76	20	Male & Female Aluminium Camlock	Crimped
04-010-9102-020CEW	102	20	Male & Female Aluminium Camlock	Crimped

High pressure compressed air service line hose. For stationary or mobile compressors operating pnuematic tools in quarries, mining civil and road construction.

REINFORCEMENT: High tensile textile cord
INNER TUBE: Black NR / SBR blend
COVER: Yellow NR / SBR blend
BRANDING: Black lettering
TEMPERATURE: -25°C to +85°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

Pre-made Hose Assemblies Part Number	ID	Lengths	Ends	Attachment Method
	mm	metres		
08-000-9019-020AS	19	20	Type A Claw Coupling	Safety Claw Clamp
08-000-9025-020AS	25	20	Type A Claw Coupling	Safety Claw Clamp

Heavy duty polyurethane layflat hose used in extremely demanding applications for the transfer of water in the pump hire and civil construction industries, other applications include dewatering, temporary bypass lines, irrigation installations as well as pumping of sludge and liquid fertilizer.

REINFORCEMENT: 100% virgin high tenacity polyester Jacket.
TUBE & COVER: Polyurethane Blend, Smooth cover for maximum abrasion resistance. Thick wall.
BRANDING: Black lettering.
TEMPERATURE: -30°C to +80°C

MANUFACTURING TECHNOLOGY: Through-the weave technology without delamination issues
LENGTH: 20m and 100m rolls.
ADVANTAGES:
- UV stabilised.

OPTIMA® Heavy Duty LDH Polyurethane Layflat Hose

NB: Longer lengths available, please contact Powell for availability.

Part Number	ID	Wall Thickness	Weight	Max. WP	Bursting Pressure	Tensile Strength	Elongation at WP	Expansion at WP
	mm	mm	kg/m	psi	psi	kg		
04-820-102	102	3.81	2.0	250	755	10,000	< 1%	< 6%
04-820-152	152	3.81	2.5	250	755	15,000	< 1%	< 6%
04-820-203	203	4.30	3.0	200	600	40,000	< 1%	< 6%
04-820-254	254	4.30	4.0	150	510	45,100	< 1%	< 6%
04-820-305	305	4.30	5.3	150	450	61,000	< 1%	< 6%

LDH Victaulic Shouldered Hosetail

LDH Heavy Duty Hose Clamp

LDH Couplings

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

Product Code	Size (inches)	Description
22-060-152-165	6	LDH Victaulic Shouldered Hosetail
22-060-203-232	8	LDH Victaulic Shouldered Hosetail
22-060-305-337	12	LDH Victaulic Shouldered Hosetail
44-005-152	6	LDH Heavy Duty Hose Clamp
44-005-203	8	LDH Heavy Duty Hose Clamp
44-005-305	12	LDH Heavy Duty Hose Clamp

Bauer Type B Couplings

Bauer Type Couplings are quick action fittings with four parts:- Male Ball, Closure Ring Female Socket and Sealing Ring.

Note: Other sizes up to 12" also available on request.
Stainless Steel made to order.

Bauer type couplings can be quickly and easily assembled with three manual movements providing a leak proof connection in both suction and pressure applications of up to 20bar, the spherical construction of the ball and socket joint ensures the seal is equally efficient even with an angular deviation of up to 30 degrees.

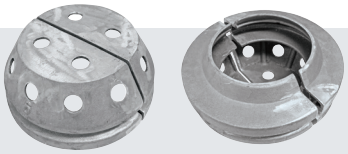
Size (Inches)	Zinc Plated Coupling Parts			
	Male Ball x Hose Tail	Female x Hose Tails (inc Seal)	Closure Rings	Replacement Seals
2	21-510-032	21-520-032	21-530-032	21-540-032
3	21-510-048	21-520-048	21-530-048	21-540-048
4	21-510-064	21-520-064	21-530-064	21-540-064
5	21-510-080	21-520-080	21-530-080	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

Bauer Type B Couplings – Flanged Table D

Size (Inches)	Zinc Plated Coupling Parts	
	Male x Flange (inc Closure Ring)	Female x Flange (inc Seal)
2	21-550-032	-
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

Bauer Type B Couplings – Various Parts

Size (Inches)	Zinc Plated Coupling Parts	
	Bauer End Cap	Strainer (Suit Female Socket) (Male closure ring inc.)
4	21-590-064	21-601-064
6	21-590-096	21-601-096
8	21-590-128	21-601-128



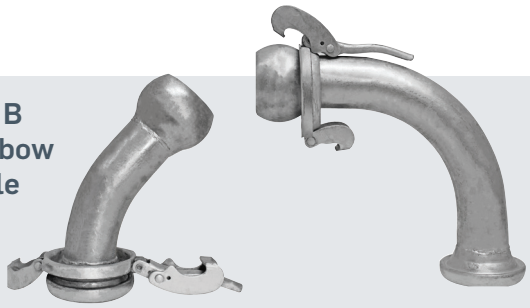
Bauer Split Strainers

Size (Inches)	Material	Part Number
4	Aluminium	21-600-064
6	Aluminium	21-600-096
8	Aluminium	21-600-128

Bauer Type B Couplings – Reducers

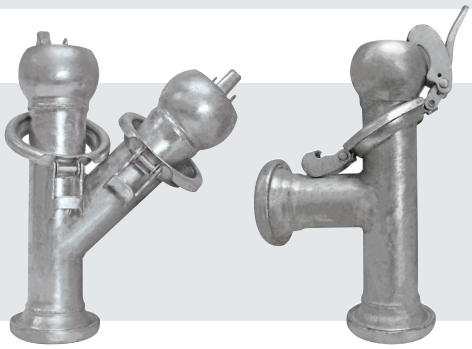
Female x Male Size (Inches)	Zinc Plated Coupling Parts	
	Female x Male Enlarger	Female x Male Reducer
4 x 6	21-620-064-096	-
6 x 4	-	21-621-096-064
6 x 8	21-620-096-128	-
8 x 6	-	21-621-128-096

Bauer Type B Coupling Elbow Male/Female



Size (Inches)	45 Degree	90 Degree
4	21-562-064	21-561-064
6	21-562-096	21-561-096

Bauer Type B Coupling Tee/Y Piece



Size (Inches)	Tee	Y Piece
4	21-563-064	21-564-064
6	21-563-096	21-564-096

Rapid®
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