



Industrial and Hydraulic Hose & Fittings



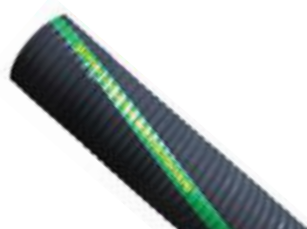
Powell Industrial Guide

Hire & Construction

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WATER SUCTION HOSE



REINFORCEMENT: Fabric Braid and Steel Helix Wire
INNER TUBE: NR/SBR Blend
COVER: NR/SBR Blend
BRANDING: Green stripe, yellow lettering
TEMPERATURE: -25°C to +70°C

ADVANTAGES:

- Highly flexible in comparison to standard water suction hoses.
- Soft ends allow for easy banding and fitting insertion.
- Comes in convenient cut length sizes.

OPTIMA® Corrugated Contractor Water Suction Hose

A short length suction and delivery hose ideally suited for the transfer of water in both pressure and suction applications, extensively used in the hire, civil construction and mining industries.

Code	ID	Nom. OD	Working Pressure @ 20°C	Weight	Bend Radius	Length
	mm	mm	psi	kg/m	mm	metres
10-220-076-***	76	89.0	100	2.8	1140	3, 6
10-220-102-***	102	115.0	100	5.1	1530	3, 6
10-220-152-***	152	167.0	100	9.2	2280	3, 6
10-220-203-***	203	221.0	100	16.7	3050	3, 6
10-220-254-***	254	278.0	100	24.7	3810	3, 6
10-220-305-***	305	328.0	100	34.8	4580	3

OPTIMA® Corrugated Contractor Water Suction Hose Assemblies

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	100	Male Bauer Type B	Female Bauer Type B	Optilok Banding Clamp
10-220-9102-***MF	102	3, 6	100	Male Bauer Type B	Female Bauer Type B	Optilok Banding Clamp
10-220-9152-***MF	152	3, 6	100	Male Bauer Type B	Female Bauer Type B	Optilok Banding Clamp
10-220-9152-***MFV	152	3, 6	100	Male Bauer Type B	Galv Foot Valve	Optilok Banding Clamp
10-220-9152-***-FF*	152	3, 6	100	Table D or E Flange	Table D or E Flange	Optilok Banding Clamp
10-220-9203-***MF	203	3, 6	100	Male Bauer Type B	Female Bauer Type B	Optilok Banding Clamp
10-220-9203-***-FF*	203	3, 6	100	Table D or E Flange	Table D or E Flange	Optilok Banding Clamp
10-220-9254-***MF	254	3, 6	100	Male Bauer Type B	Female Bauer Type B	Optilok Banding Clamp
10-220-9305-***MF	305	3	100	Male Bauer Type B	Female Bauer Type B	Optilok Banding Clamp





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

ADVANTAGES:

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

OPTIMA® Heavy Duty NBR Covered 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 Covered 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	Optilok Banding Clamp
04-800-9102-020MF	102	20	150	10	Male Bauer Type B	Female Bauer Type B	Wire Whipped
04-800-9152-010MF	152	10	150	10	Male Bauer Type B	Female Bauer Type B	Optilok Banding Clamp
04-800-9152-020MF	152	20	150	10	Male Bauer Type B	Female Bauer Type B	Wire Whipped
04-800-9152-025MF	152	25	150	10	Male Bauer Type B	Female Bauer Type B	Optilok Banding Clamp
04-800-9203-020MF	203	20	150	10	Male Bauer Type B	Female Bauer Type B	Wire Whipped

LAYFLAT HOSE

Polyurethane layflat hose provides compact, durable, lightweight water and multi-purpose service in agricultural, construction, general industrial and mining applications.

The hose offers superior value due to its robust design, rugged materials, compatibility across many applications.

Traditional PVC layflat hose incorporates spiral reinforcement sandwiched between stiff layers of PVC, whereas the OPTIMA® Heavy Duty LDH hose features a strong circular woven reinforcement that allows the polyurethane to be extruded through-the-weave, fully encapsulating the textile reinforcement. The strong yet pliable hose wall resists abrasion, cracking, puncturing, and degradation from oil, ozone, petrochemicals, ultraviolet light and weathering. The design and materials promote strong adhesions between the hose components, resulting in exceptional performance and service life.





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



REINFORCEMENT: High strength yarn
CONSTRUCTION: PVC
INNER TUBE: Blue PVC
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.
- Wire whipped - saving time and money.
- Individually pre-packaged in cardboard box and ideal for retail display.

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	Wire whipped & Box
04-000-9076-020CEW	76	20	Male & Female Aluminium Camlock	Wire whipped & Box
04-000-9102-020CEW	102	20	Male & Female Aluminium Camlock	Wire whipped & Box



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.
- Wire whipped - saving time and money.
- 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 metre / assembly.

Red Layflat Hose Assemblies

51mm / 76mm / 102mm High Pressure Hose

Pre-made Hose Assemblies Part Number	ID	Lengths	Ends	Attachment Method
	mm	metres		
04-010-905-020CEW	51	20	Male & Female Aluminium Camlock	Wire whipped & Box
04-010-9076-020CEW	76	20	Male & Female Aluminium Camlock	Wire whipped & Box
04-010-9102-020CEW	102	20	Male & Female Aluminium Camlock	Wire whipped & Box



High pressure compressed air service line hose. For stationary or mobile compressors operating pneumatic 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: High-tenacity synthetic jacket
COVER & LINING: PU, ribbed cover or smooth cover
BRANDING: Black lettering
TEMPERATURE: -50°C to +80°C

APPLICATION: Irrigation, pumping of sludge and liquid fertilizers, supply or drag hose.

AVAILABLE LENGTH: 20m and 100m

ADVANTAGES:

- UV stabilised.

OPTIMA® Heavy Duty LDH Polyurethane Layflat Hose

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

Part Number	ID	Wall Thickness	Max. WP	Bursting Pressure	Weight	Tensile Strength	Elongation at WP	Expansion at WP
	metres	mm	psi (mPa)	psi	kg/m			
04-820-120	4	0.15	250	755	2.0	10000	<1%	<6%
04-820-152	6	0.15	250	755	2.5	15000	<1%	<6%
04-820-203	8	0.15	200	600	3.0	40000	<1%	<6%
04-820-254	10	0.17	150	510	4.0	45100	<1%	<6%
04-820-305	12	0.23	150	450	5.3	61000	<1%	<6%



LDH Victaulic Shouldered Hosetail

LDH Heavy Duty Hose Clamp

LDH Couplings

Victaulic high pressure shouldered coupling system.

Product Code	Size (inches)	Description
22-050-096-175	6	LDH Victaulic Shouldered Hosetail
22-050-128-219	8	LDH Victaulic Shouldered Hosetail
22-050-192-324	12	LDH Victaulic Shouldered Hosetail
22-005-152	6	LDH Heavy Duty Hose Clamp
22-005-203	8	LDH Heavy Duty Hose Clamp
22-005-305	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 Set	Zinc Plated Coupling Parts			
	Complete Set	Male Ball x Hose Tail	Female x Hose Tails (inc Seal)	Closure Rings	Replacement Seals
2	21-500-032	21-510-032	21-520-032	21-530-032	21-540-032
3	21-500-048	21-510-048	21-520-048	21-530-048	21-540-048
4	21-500-064	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	21-500-096	21-510-096	21-520-096	21-530-096	21-540-096
8	21-500-128	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	21-620-069-128	-
8 x 6	-	21-621-128-096

Bauer Type B Elbows – 45° Degree – 90° Degree



SIZE AVAILABLE FROM 3" THROUGH TO 12".
PLEASE CONTACT YOUR LOCAL POWELL INDUSTRIAL BRANCH FOR MORE INFORMATION.

Powell Industrial Product Range

HOSES

- Rubber
- PVC Pressure
- PVC Suction
- Layflat
- Ducting
- Composite

FITTINGS

- Camlocks
- Hose Tails
- Couplings
- Clamps
- Valves
- Brass Screwed
- Pipe Fittings
- Stainless Steel Screwed
- Polypropylene/Nylon
- Guns & Nozzles

PNEUMATICS

- Pneumatic Tube & Air Pipe
- Pneumatic Push-In
- Pneumatic Quick Couplings
- Pneumatic Accessories

HOSE REELS

- Manual & Automatic Rewind

RUBBER

- Insertion Rubber
- Rubber Sheet
- Matting

HYDRAULICS

- Hydraulic Hoses
- Hydraulic Hose Tails
- Hydraulic Adaptors
- Hydraulic Quick Couplings
- Hydraulic Accessories

ACCESSORIES & CONSUMABLES

- Spill Control
- Thread Tapes, Adhesives, Pastes & Sealants
- Hose Protectors
- Mesh

For more detailed information on the individual products associated with each category and sub-group listed above, along with all the great industrial brands you can find at Powell Industrial, please contact your local branch for assistance or visit our website www.powellindustrial.com.au

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