



Industrial and Hydraulic Hose & Fittings



## *Powell Industrial Guide Concrete Hose & Fittings*

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# CONCRETE PUMPING HOSE



**REINFORCEMENT:** High tensile textile cord.  
**INNER TUBE:** Black smooth conductive NR  
 - abrasion and cut resistant.  
**COVER:** Black wrapped conductive SBR  
 - weather and abrasion resistant  
**SAFETY FACTOR:** 3 : 1  
**BRANDING:** OPTIMA® PP8502 TUFF-CRETE  
 FABRIC CONCRETE PUMPING - 40BAR  
 (600PSI) W.P MADE IN ITALY  
**TEMPERATURE:** -40°C to +70°C

**ADVANTAGES:**

- On average 25% lighter in weight than steel reinforced hose.
- Abrasion resistant giving extended service life.
- Flexible and easy to handle.
- Construction eliminates kinking and allows easy cleaning by reverse pumping.

**OPTIMA® PP8502  
 Tuff-Crete Fabric Concrete  
 Pumping Hose**

Mandal built fabric reinforced concrete pump hose for boom transfer/placement, applications also include pneumatic discharge of cement and minerals, plaster, grout, slurry and abrasive materials with small granulometry.

Part Number	ID	Nom. OD	Working Pressure @ 20°C		Weight	Vacuum Rating @ 20°C	Bend Radius	Lengths
	mm	mm	psi	bar	kg/m	in/Hg	mm	metres
10-820-051-030	51	69.0	600	40	1.99	12	305	30
10-820-063-030	63	83.0	600	40	2.70	12	380	30
10-820-076-030	76	104.0	600	40	3.70	12	400	30
10-820-088-030	88	118.0	600	40	5.30	12	500	30
10-820-102-030	102	130.0	600	40	6.40	12	550	30



**Hose Assemblies**

The OPTIMA® PP8502 fabric reinforced concrete pump hose is also available to order as complete assemblies fitted by one of the fully equipped Powell Industrial workshop facilities strategically located throughout the country. With hose lengths of 4 metres and 10 metres the most widely used lengths in the industry available in both single and double ended assemblies, our workshops also have the flexibility to make assemblies to specific lengths for that one off project.

NB: Pre-made hose assemblies available on request.





CONTACT YOUR LOCAL POWELL INDUSTRIAL BRANCH FOR YOUR CONCRETE HOSE ASSEMBLIES. ASSEMBLIES CAN BE MANUFACTURED/DELIVERED SAME DAY.



**REINFORCEMENT:** High tensile steel cord.  
**INNER TUBE:** Black smooth conductive NR - abrasion and cut resistant.  
**COVER:** Black wrapped conductive SBR - weather and abrasion resistant  
**SAFETY FACTOR:** 2.5 : 1  
**BRANDING:** OPTIMA® PP8505 TUFF-CRETE HEAVY DUTY STEEL CONCRETE PUMPING - 85BAR (1250PSI) W.P MADE IN ITALY  
**TEMPERATURE:** -40°C to +70°C

- ADVANTAGES:**
- Extremely high abrasion resistance giving extended service life.
  - Flexible and easy to handle.
  - Robust construction to withstand heavy compressive loads and guarantee maximum safety.
  - Construction eliminates kinking and allows easy cleaning by reverse pumping.

**OPTIMA® PP8505 Tuff-Crete Heavy Duty Steel Concrete Pumping Hose**  
 Mandrel built steel reinforced concrete pump hose for boom transfer/placement, applications also include pneumatic discharge of cement and minerals, plaster, grout, slurry and abrasive materials with small granulometry.

Part Number	ID	Nom. OD	Working Pressure @ 20°C		Weight	Vacuum Rating @ 20°C	Bend Radius	Lengths
	mm	mm	psi	bar	kg/m	in/Hg	mm	metres
10-830-051-030	51	69.0	1250	85	2.70	24	305	30
10-830-063-030	63	85.0	1250	85	4.20	24	380	30
10-830-076-030	76	100.0	1250	85	5.20	24	400	30
10-830-088-030	88	116.0	1250	85	6.20	24	500	30
10-830-102-030	102	128.0	1250	85	8.00	24	550	30
10-830-127-030	127	155.0	1250	85	9.90	24	700	30



**Hose Assemblies**

The OPTIMA® PP8505 steel reinforced concrete pump hose is also available to order as complete assemblies fitted by one of the fully equipped Powell Industrial workshop facilities strategically located throughout the country. With hose lengths of 4 metres and 10 metres the most widely used lengths in the industry available in both single and double ended assemblies, our workshops also have the flexibility to make assemblies to specific lengths for that one off project.

NB: Pre-made hose assemblies available on request.

# CONCRETE HOSE FITTINGS



**OPTIMA® Victaulic Shoulderd Quick Release Clamp 130BAR W.P**

NB: Coupling Safety Pin included.

The OPTIMA Victaulic Shoulderd Quick Release Clamp is manufactured to comply with Australian Standard AS1418.15 from high quality carbon steel Grade AS 1030-1040 which has been heat treated to give added strength. These clamps have been designed with a working pressure of 130bar and have a 2:1 safety factor.

Code	Size	Head Dimension A	Head Dimension B	Working Pressure	
		mm	mm	psi	bar
59-607-050-067	2"	67	59.5	1900	130
59-607-063-097	2 1/2"	97	88.5	1900	130
59-607-076-097	3"	97	88.5	1900	130
59-607-088-122	3 1/2"	122	115.0	1900	130
59-607-088-127	3 1/2"	127	115.0	1900	130
59-607-102-122	4"	122	115.0	1900	130
59-607-102-127	4"	127	115.0	1900	130
59-607-127-148	5"	148	139.0	1900	130

**ADVANTAGES:**

- Case hardened steel.
- Oversized hose tail allowing for optimum flow.
- Black Electroplated surface finish minimising corrosion extending the life of the hose tail.



**Case Hardened Steel Concrete Hose Stems**



**Case Hardened Steel Concrete Hose Stems - Female**

Code	Hose ID	Hose ID	Head	Head DN	Head Dimensions				Weight
					A	B	C	D	
	mm	inch	style	inch	mm	mm	mm	mm	kg / m
22-050-051-067	51	2	Shouldered	2	66.5	59.5	16.0	20.0	1.10
22-050-063-097	63	2-1/2	Shouldered	3	97.0	88.5	16.0	20.0	1.96
22-050-076-097	76	3	Shouldered	3	97.0	88.5	16.0	20.0	2.13
22-050-088-122	88	3-1/2	Shouldered	4	122.0	115.0	17.5	20.0	3.82
22-050-088-127	88	3-1/2	Shouldered	4-1/2	127.0	115.0	17.0	20.0	3.77
22-050-102-122	102	4	Shouldered	4	122.0	115.0	17.5	20.0	3.45
22-050-102-127	102	4	Victaulic	4-1/2	127.0	115.0	17.0	20.0	3.45
22-050-127-148	127	5	Victaulic	5-1/2	148.0	139.0	17.0	20.0	4.55

Code	Hose ID	Hose ID	Head	Thread Size		Weight
	mm	inch	style	inch	type	
22-050-051-032F	51	2	Threaded	2	BSPP	1.303



**Steel Plated Concrete Hose Ferrules**

Code	Hose ID	Hose ID	Hose OD (min)	Hose OD (max)	Weight	Material
	mm	inch	inch	inch		
19-390-032	51	2	62.0	71.0	0.89	Plated Steel
19-390-040	63	2-1/2	74.0	87.0	0.85	Plated Steel
19-390-048	76	3	90.0	106.0	1.40	Plated Steel
19-390-056	88	3-1/2	102.0	120.0	2.20	Plated Steel
19-390-064	102	4	116.0	132.0	2.86	Plated Steel
19-390-080	127	5	143.0	159.0	3.90	Plated Steel

**QUEENSLAND**

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 - Wetherill Park (02) 8786 7200  
 - Newcastle (02) 4918 5400

**VICTORIA**

Melbourne  
 - Braeside (03) 8544 5800  
 - Derrimut (03) 8383 2835  
 - Bayswater (03) 9753 8400

**WESTERN AUSTRALIA**

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