

## WATERBLAST



# WATERBLAST

The **Dunlop Hiflex WATERBLAST** range offers a simple, no-nonsense solution matching generic industry pressure rating, and is backed by 30 years' experience in the supply of fully tested and certified waterjetting hose assemblies to a worldwide market.

High-performance WATERBLAST hose features flexibility, light weight and durability and comes in three pressure series carrying colour-coded branding for easy identification. Hose and fittings are concurrently engineered and manufactured from the highest quality materials, within recognised quality standards, to surpass industry specifications and deliver maximum reliability in service.

All WATERBLAST hoses are designed with a safety factor of 2.5:1 in line with RMA (USA), BFP (UK) and DIN (Germany) standards.

## WATERBLAST applications

- Surface preparation
- Pavement maintenance
- Paint removal
- Corrosion and dust removal
- Welding residue, drawing compounds removal
- Tank cleaning
- Hydrodemolition of concrete
- Water Jets texture sandstone
- Water Jet cutting of food and soft materials
- Abrasive Jet cutting of hard materials



It is recommended that, in line with industry regulations, all WATERBLAST assemblies are pressure tested to 1.5 times the maximum working pressure.

- The use of the hose above the maximum working pressure causes over-stressing of the reinforcement and will lead to premature failure. Relief valves should be set to operate at 10% above the maximum working pressure. Pulsating pressures will also have the same effect on hoses by reducing life and should be controlled as far as possible.
- Hoses change in length under pressure and this can be  $\pm 2\%$ . If allowance is not made for this the hose can rupture or pull out of its fittings, either of which could cause bodily injury to the operator. This contraction must be allowed for when using chains to clamp lengths together.
- Fitting retention on hoses is particularly dependent on temperature. The basis for the WATERBLAST safety factor of 2.5:1 relies on temperatures not exceeding 70°C.
- Fittings are designed to anchor on to hoses to resist the effects of pressure from inside the hose; they have not been designed for any other purpose. It is normal in waterblast operations to join several lengths of hose together. However it is not recommended that these lengths are permitted to hang. This puts a large stress on the highest fittings and restricts the natural ability of the hose to contract under pressure. Tensile loads of any kind should be avoided.
- Physical damage to the hose caused by crushing or twisting will distort the reinforcement and lead to hose failure. Damage to the hose cover allowing water ingress will eventually lead to corrosion of the carbon steel wires. Damage to the cover is unavoidable, especially in contact with sharp edges. Once the cover has been damaged down to the wire the assembly should be replaced.
- High-pressure water is dangerous. Always wear adequate protective clothing, boots and eye protection.

# // WATERBLAST HOSE



## // WATERBLAST - WB10L



**Tube:** oil and water resistant synthetic rubber.  
**Reinforcement:** four high tensile steel spirals.  
**Cover:** oil, water and ozone resistant synthetic rubber.  
**Application:** vey high pressure water jetting.  
**Constant operation:** -10 °C +70 °C (14 °F +158 °F)  
**Safety factor:** 2,5:1  
**Length:** see below grid for the multiples.

| Item Code | ↔    |      | ↔    |       | ↻    | ↻    |       | ↻     |       | ↻     |       | ⚖     |      | Length<br>m |
|-----------|------|------|------|-------|------|------|-------|-------|-------|-------|-------|-------|------|-------------|
|           | Dash | mm   | in   | mm    |      | in   | Mpa   | psi   | Mpa   | psi   | mm    | in    | kg/m |             |
| 1003795   | 08   | 13,0 | 1/2" | 13,00 | 0,51 | 70,0 | 10000 | 175,0 | 25000 | 200,0 | 7,87  | 0,805 | 0,55 | 15,250      |
| 1003796   | 08   | 13,0 | 1/2" | 13,00 | 0,51 | 70,0 | 10000 | 175,0 | 25000 | 200,0 | 7,87  | 0,805 | 0,55 | 20,000      |
| 1004044   | 12   | 19,0 | 3/4" | 32,20 | 1,27 | 70,0 | 10000 | 175,0 | 25000 | 210,0 | 8,27  | 1,450 | 0,98 | 15,250      |
| 1004212   | 12   | 19,0 | 3/4" | 32,20 | 1,27 | 70,0 | 10000 | 175,0 | 25000 | 210,0 | 8,27  | 1,450 | 0,98 | 20,000      |
| 1004213   | 16   | 25,0 | 1"   | 38,70 | 1,52 | 70,0 | 10000 | 175,0 | 25000 | 320,0 | 12,60 | 1,981 | 1,34 | 15,250      |
| 1004214   | 16   | 25,0 | 1"   | 38,70 | 1,52 | 70,0 | 10000 | 175,0 | 25000 | 320,0 | 12,60 | 1,981 | 1,34 | 20,000      |

## // WATERBLAST - WB15L



**Tube:** oil and water resistant synthetic rubber.  
**Reinforcement:** four high tensile steel spirals.  
**Cover:** oil, water and ozone resistant synthetic rubber.  
**Application:** vey high pressure water jetting.  
**Constant operation:** -10 °C +70 °C (14 °F +158 °F)  
**Safety factor:** 2,5:1  
**Length:** see below grid for the multiples.

| Item Code | ↔    |      | ↔    |       | ↻    | ↻     |       | ↻     |       | ↻     |       | ⚖     |      | Length<br>m |
|-----------|------|------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|------|-------------|
|           | Dash | mm   | in   | mm    |      | in    | Mpa   | psi   | Mpa   | psi   | mm    | in    | kg/m |             |
| 1003471   | 06   | 10,0 | 3/8" | 21,40 | 0,84 | 124,0 | 18000 | 310,0 | 45000 | 150,0 | 5,91  | 0,850 | 0,58 | 15,250      |
| 1003470   | 06   | 10,0 | 3/8" | 21,40 | 0,84 | 124,0 | 18000 | 310,0 | 45000 | 150,0 | 5,91  | 0,850 | 0,58 | 20,000      |
| 1003473   | 08   | 13,0 | 1/2" | 24,40 | 0,96 | 110,0 | 16000 | 275,0 | 40000 | 200,0 | 7,87  | 1,120 | 0,76 | 15,250      |
| 1003472   | 08   | 13,0 | 1/2" | 24,40 | 0,96 | 110,0 | 16000 | 275,0 | 40000 | 200,0 | 7,87  | 1,120 | 0,76 | 20,000      |
| 1003475   | 12   | 19,0 | 3/4" | 32,00 | 1,26 | 100,0 | 14500 | 250,0 | 36000 | 280,0 | 11,02 | 1,683 | 1,14 | 15,250      |
| 1003474   | 12   | 19,0 | 3/4" | 32,00 | 1,26 | 100,0 | 14500 | 250,0 | 36000 | 280,0 | 11,02 | 1,683 | 1,14 | 20,000      |

# // WATERBLAST HOSE



## // WATERBLAST - WB20L



**Tube:** oil and water resistant synthetic rubber.

**Reinforcement:** four or six high tensile steel spirals or four high tensile steel spiral and one steel braid.

**Cover:** oil, water and ozone resistant synthetic rubber.

**Application:** very high pressure water jetting.

**Constant operation:** -10 °C +70 °C (14 °F +158 °F)

**Safety factor:** 2,5:1

**Length:** see below grid for the multiples.

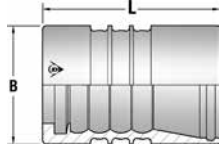
| Item Code | Const.  | ↔    |      |       | ↔     |      | ↻     |       | ↻     |       | ⌒     |       | ⚖     |       | Length |
|-----------|---------|------|------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
|           |         | Dash | mm   | in    | mm    | in   | Mpa   | psi   | Mpa   | psi   | mm    | in    | kg/m  | lb/ft |        |
| 1004171   | 4WS     | 04   | 6,0  | 1/4"  | 16,20 | 0,64 | 140,0 | 20000 | 350,0 | 50000 | 125,0 | 4,92  | 0,609 | 0,41  | 15,250 |
| 1004172   | 4WS     | 04   | 6,0  | 1/4"  | 16,20 | 0,64 | 140,0 | 20000 | 350,0 | 50000 | 125,0 | 4,92  | 0,609 | 0,41  | 20,000 |
| 1004175   | 4WS     | 05   | 8,0  | 5/16" | 17,30 | 0,68 | 140,0 | 20000 | 350,0 | 50000 | 135,0 | 5,31  | 0,660 | 0,45  | 15,250 |
| 1004176   | 4WS     | 05   | 8,0  | 5/16" | 17,30 | 0,68 | 140,0 | 20000 | 350,0 | 50000 | 135,0 | 5,31  | 0,660 | 0,45  | 20,000 |
| 1004178   | 4WS+1WB | 06   | 10,0 | 3/8"  | 22,00 | 0,87 | 140,0 | 20000 | 350,0 | 50000 | 150,0 | 5,91  | 1,021 | 0,69  | 15,250 |
| 1004179   | 4WS+1WB | 06   | 10,0 | 3/8"  | 22,00 | 0,87 | 140,0 | 20000 | 350,0 | 50000 | 150,0 | 5,91  | 1,021 | 0,69  | 20,000 |
| 1003798   | 4WS+1WB | 08   | 13,0 | 1/2"  | 29,50 | 1,16 | 140,0 | 20000 | 350,0 | 50000 | 200,0 | 7,87  | 1,433 | 0,97  | 15,250 |
| 1003799   | 4WS+1WB | 08   | 13,0 | 1/2"  | 29,50 | 1,16 | 140,0 | 20000 | 350,0 | 50000 | 200,0 | 7,87  | 1,433 | 0,97  | 20,000 |
| 1004181   | 6WS     | 12   | 19,0 | 3/4"  | 35,00 | 1,38 | 140,0 | 20000 | 350,0 | 50000 | 300,0 | 11,81 | 2,529 | 1,70  | 15,250 |
| 1004182   | 6WS     | 12   | 19,0 | 3/4"  | 35,00 | 1,38 | 140,0 | 20000 | 350,0 | 50000 | 300,0 | 11,81 | 2,529 | 1,70  | 20,000 |



## // WATERBLAST FERRULES



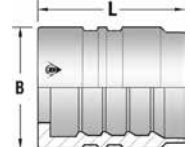
### // D990000 Waterblast Ferrule for WB10 - WB15 - WB20\*



| Item Code | ID   |      | B    | L    |
|-----------|------|------|------|------|
|           | Dash | mm   |      |      |
| 1240103   | 04   | 6,0  | 22,0 | 25,5 |
| 1240105   | 05   | 8,0  | 27,0 | 35,0 |
| 1215264   | 06   | 10,0 | 28,0 | 47,0 |
| 1223163   | 08   | 13,0 | 33,0 | 50,0 |
| 1215266   | 12   | 19,0 | 41,0 | 63,0 |
| 1215267   | 16   | 25,0 | 49,0 | 75,0 |

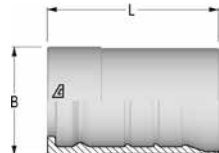
\* for WB20: 1/4" and 5/16" only

### // D980000 Waterblast Ferrule for WB20



| Item Code | ID   |      | B    | L    |
|-----------|------|------|------|------|
|           | Dash | mm   |      |      |
| 1242379   | 06   | 10,0 | 32,0 | 45,0 |
| 1215257   | 08   | 13,0 | 37,4 | 46,0 |
| 1241935   | 12   | 19,0 | 46,0 | 63,0 |

### // H1400200 Interlock Ferrule for WB10



| Item Code | ID   |    | B  | L    |
|-----------|------|----|----|------|
|           | Dash | mm |    |      |
| 1201856   | 8    | 13 | 30 | 52,5 |
| 1201503   | 12   | 19 | 38 | 60,2 |
| 1201504   | 16   | 25 | 46 | 74,7 |

to be used with interlock inserts only H14 series

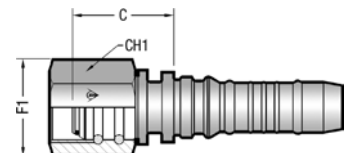


## // WATERBLAST FITTINGS



**WATERBLAST INSERTS ARE MANUFACTURED USING A SPECIAL STEEL IN ORDER TO ENHANCE THE PERFORMANCE AND RELIABILITY OF THE PRODUCT**

### // A99001-WB BSP Female 60° with O-Ring

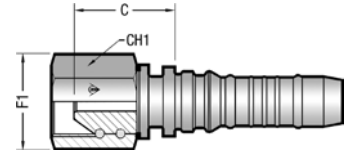


| Item Code | Head/Tail | Nut Type | ID   |      |       | F1        | F1     | C    | CH1  |
|-----------|-----------|----------|------|------|-------|-----------|--------|------|------|
|           | Dash      |          | Dash | mm   | in    | Dash Size |        |      |      |
| 1240158   | -0404     | SN       | 04   | 6,0  | 1/4"  | 04        | 1/4-19 | 26,0 | 22,0 |
| 1240159   | -0605     | SN       | 05   | 8,0  | 5/16" | 06        | 3/8-19 | 31,0 | 25,0 |
| 1214925   | -0606     | TN       | 06   | 10,0 | 3/8"  | 06        | 3/8-19 | 32,1 | 22,0 |
| 1225828   | -0808     | TN       | 08   | 13,0 | 1/2"  | 08        | 1/2-14 | 36,0 | 30,0 |
| 1214927   | -1212     | TN       | 12   | 19,0 | 3/4"  | 12        | 3/4-14 | 37,3 | 36,0 |

# // WATERBLAST FITTINGS

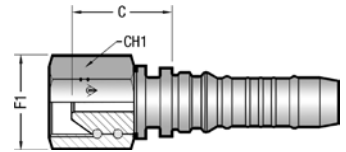


## // A99010-WB BSP Female 60° without O-Ring



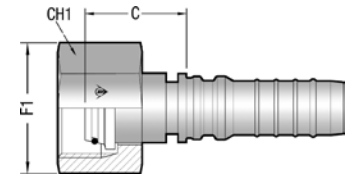
| Item Code | Head/Tail | Nut Type | ID   |      |      | F1        | F1     | C    | CH1  |
|-----------|-----------|----------|------|------|------|-----------|--------|------|------|
|           | Dash      |          | Dash | mm   | in   | Dash Size |        |      |      |
| 1245682   | -0808     | TN       | 08   | 13,0 | 1/2" | 08        | 1/2-14 | 36,0 | 30,0 |

## // A99061-WB UNF Type "M Swivel"



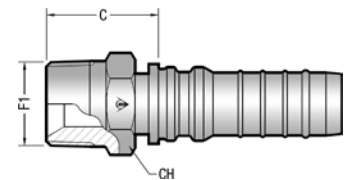
| Item Code | Head/Tail | Nut Type | ID   |      |      | F1        | F1       | C    | CH1  |
|-----------|-----------|----------|------|------|------|-----------|----------|------|------|
|           | Dash      |          | Dash | mm   | in   | Dash Size |          |      |      |
| 1230563   | -1008     | TN       | 08   | 13,0 | 1/2" | 10        | 1-12 UNF | 41,0 | 32,0 |

## // A99179-WB Metric Female 24° cone with O-Ring - Heavy DIN 3865 DKOS Slip on nut with relief bore



| Item Code | Head/Tail | Nut Type | ID   |      |       | F1      | OD1 | C    | CH1  |
|-----------|-----------|----------|------|------|-------|---------|-----|------|------|
|           | Dash      |          | Dash | mm   | in    |         |     |      |      |
| 1240100   | -0204     | SN       | 04   | 6,0  | 1/4"  | M14X1.5 | 6   | 28,0 | 22,0 |
| 1240101   | -0405     | SN       | 05   | 8,0  | 5/16" | M18X1.5 | 10  | 34,3 | 27,0 |
| 1214929   | -0606     | SN       | 06   | 10,0 | 3/8"  | M22X1.5 | 14  | 36,5 | 27,0 |
| 1214930   | -0806     | SN       | 06   | 10,0 | 3/8"  | M24X1.5 | 16  | 39,5 | 30,0 |
| 1214931   | -0808     | SN       | 08   | 13,0 | 1/2"  | M24X1.5 | 16  | 40,0 | 30,0 |
| 1214932   | -1212     | SN       | 12   | 19,0 | 3/4"  | M36X2   | 25  | 47,3 | 46,0 |
| 1214933   | -1616     | SN       | 16   | 25,0 | 1"    | M42X2   | 30  | 49,6 | 50,0 |

## // 990170-WB NPTF Male 60°



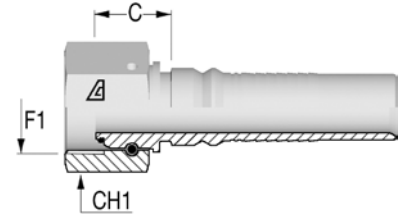
| Item Code | Head/Tail | Nut Type | ID   |      |       | F1        | F1       | C    | CH   |
|-----------|-----------|----------|------|------|-------|-----------|----------|------|------|
|           | Dash      |          | Dash | mm   | in    | Dash Size |          |      |      |
| 1240134   | -0404     | NA       | 04   | 6,0  | 1/4"  | 04        | 1/4-18   | 27,5 | 17,0 |
| 1240135   | -0605     | NA       | 05   | 8,0  | 5/16" | 06        | 3/8-18   | 30,5 | 19,0 |
| 1215271   | -0606     | NA       | 06   | 10,0 | 3/8"  | 06        | 3/8-18   | 31,0 | 19,0 |
| 1215272   | -0808     | NA       | 08   | 13,0 | 1/2"  | 08        | 1/2-14   | 35,0 | 22,0 |
| 1215273   | -1212     | NA       | 12   | 19,0 | 3/4"  | 12        | 3/4-14   | 37,9 | 30,0 |
| 1215274   | -1616     | NA       | 16   | 25,0 | 1"    | 16        | 1-11 1/2 | 47,3 | 36,0 |

# // INTERLOCK FITTINGS FOR WB10



## // H1420812

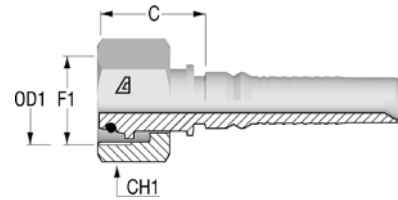
**BSPP Female 60° Cone with O-Ring  
DKOR**



| Item Code | Tale/Head | Nut Type | ID   |      |      | F1        | F1     | C    | CH1  |
|-----------|-----------|----------|------|------|------|-----------|--------|------|------|
|           | Dash      |          | Dash | mm   | in   | Dash Size | F1     | mm   | mm   |
| 1214247   | -0808     | CR       | 08   | 13,0 | 1/2" | 08        | 1/2-14 | 19,5 | 27,0 |
| 1202424   | -1212     | TN       | 12   | 19,0 | 3/4" | 12        | 3/4-14 | 22,5 | 32,0 |
| 1202440   | -1616     | TN       | 16   | 25,0 | 1"   | 16        | 1-11   | 25,5 | 38,0 |

## // H1421613

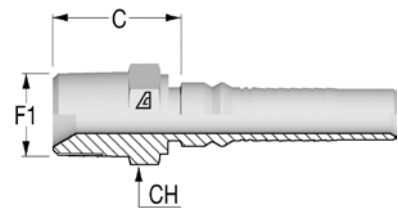
**Metric Female 24° Cone with O-Ring - Heavy  
DIN 3865 - DKOS**



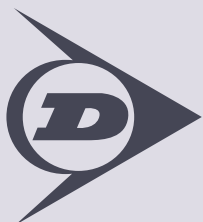
| Item Code | Tale/Head | Nut Type | ID   |      |      | F1      | OD1 | C    | CH1  |
|-----------|-----------|----------|------|------|------|---------|-----|------|------|
|           | Dash/mm   |          | Dash | mm   | in   |         | mm  | mm   | mm   |
| 1201857   | -0824     | SN       | 08   | 13,0 | 1/2" | M24X1.5 | 16  | 29,6 | 30,0 |
| 1202584   | -1230     | TN       | 12   | 19,0 | 3/4" | M30X2   | 20  | 37,5 | 36,0 |
| 1201092   | -1236     | SN       | 12   | 19,0 | 3/4" | M36X2   | 25  | 37,6 | 46,0 |
| 1202887   | -1636     | TN       | 16   | 25,0 | 1"   | M36X2   | 25  | 38,8 | 46,0 |
| 1201125   | -1642     | SN       | 16   | 25,0 | 1"   | M42X2   | 30  | 40,7 | 50,0 |

## // H1412810

**NPTF Male 60° Seat  
AGN**



| Item Code | Tale/Head | Nut Type | ID   |      |      | F1        | F1       | C    | CH   |
|-----------|-----------|----------|------|------|------|-----------|----------|------|------|
|           | Dash      |          | Dash | mm   | in   | Dash Size | F1       | mm   | mm   |
| 1203127   | -0808     | NA       | 08   | 13,0 | 1/2" | 08        | 1/2-14   | 30,0 | 22,0 |
| 1200193   | -1212     | NA       | 12   | 19,0 | 3/4" | 12        | 3/4-14   | 32,0 | 27,0 |
| 1200219   | -1616     | NA       | 16   | 25,0 | 1"   | 16        | 1-11 1/2 | 42,0 | 36,0 |



**HEAD OFFICE**

Via Torri Bianche 1  
20871 Vimercate (MB) Italy  
[www.dunlophiflex.com](http://www.dunlophiflex.com)