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Technical Bulletin: 2009-01-19A

Date: January 2009

Subject: Crimp Specification Updates

Products affected:

111-20 1-1/4" SAE100R1AT hydraulic hose

5901-20 1-1/4" two-piece skive crimp ferrule

Technical details:

Finished crimp diameter is amended from 47.0 mm to 47.4 mm

Rationale:

Ongoing testing allows optimization of crimp dimensions for this product

Affected documents:

PULSAR Master Crimp Chart #: 21 Rev 10

PULSAR Crimper Specific Charts:

<u>Crimper Model</u>	<u>Chart #</u>
D205M	21 Rev 10
P32M	21 Rev 10

Note: Charts provided for other brands of crimpers may be affected. Please consult the PULSAR website for updated charts.



Technical Bulletin: 2009-01-19B

Date: January 2009

Subject: Crimp Specification Updates

Products affected:

182-08 1/2" SAE100R8 Thermoplastic hydraulic hose

5508-08 1/2" two-piece Non-skive crimp ferrule

Technical details:

Finished crimp diameter is 22.2mm

Rationale:

Ongoing testing allows optimization of crimp dimensions for this product

Affected documents:

PULSAR Master Crimp Chart #: 78REV

PULSAR Crimper Specific Charts:

<u>Crimper Model</u>	<u>Chart #</u>
D105M	78REV
D165M	78REV
D205M	78REV
P32M	78REV
P20	78REV

Note: Charts provided for other brands of crimpers may be affected. Please consult the PULSAR website for updated charts.



Technical Bulletin: 2008-02-19A

Date: February 2008

Subject: Crimp Specification Updates

Products affected:

111-20 1-1/4" SAE100R1AT hydraulic hose

5901-20 1-1/4" two-piece skive crimp ferrule

Technical details:

Finished crimp diameter is amended from 47.4 mm to 47.0 mm

Rationale:

Ongoing testing allows optimization of crimp dimensions for this product

Affected documents:

PULSAR Master Crimp Chart #: 21 Rev 10

PULSAR Crimper Specific Charts:

<u>Crimper Model</u>	<u>Chart #</u>
D205M	21 Rev 10
P32M	21 Rev 10

Note: Charts provided for other brands of crimpers may be affected. Please consult the PULSAR website for updated charts.



Technical Bulletin: 2008-02-19B

Date: February 2008

Subject: Crimp Specification Updates

Products affected:

124-20 1 1/4" SAE100R12 hydraulic hose

9400-20 1 1/4" one-piece crimp ferrule

Technical details:

Finished crimp diameter is amended from 52.4mm to 51.5mm

Rationale:

Ongoing testing allows optimization of crimp dimensions for this product

Affected documents:

PULSAR Master Crimp Chart #: 42 Rev 07

PULSAR Crimper Specific Charts:

<u>Crimper Model</u>	<u>Chart #</u>
D205M	42 Rev 07
P32M	42 Rev 07

Note: Charts provided for other brands of crimpers may be affected. Please consult the PULSAR website for updated charts.



Technical Bulletin: 2008-02-19C

Date: February 2008

Subject: SAE100R15 Fitting Recommendation Update

Products affected:

156-20	1-1/4" SAE100R15 hydraulic hose
9600-20	1-1/4" one-piece skive crimp ferrule
156-24	1-1/2" SAE100R15 hydraulic hose
9600-24	1-1/2" one-piece skive crimp ferrule

Technical details:

Use of 9600 fitting with SAE100R15 hydraulic hose in sizes above 1" is no longer recommended.

Rationale:

Pulsar Interlock 8600 fittings provide increased impulse life, and a mechanical interlock mechanism to resist fitting blow-off type failures. Since application environments vary widely, and cannot be controlled by PULSAR, only Interlock fittings are approved for extreme applications.

Affected documents:

PULSAR Master Crimp Chart #: 64 Rev 05/05

PULSAR Crimper Specific Charts:

<u>Crimper Model</u>	<u>Chart #</u>
D205M	64 Rev 05/05
P32M	64 Rev 05/05

Note: Charts provided for other brands of crimpers may be affected. Please consult the PULSAR website for updated charts.



Technical Bulletin: 2008-02-19D

Date: February 2008

Subject: SAE100R13 Fitting Recommendation Update

Products affected:

136-20	1-1/4" SAE100R13 hydraulic hose
9600-20	1-1/4" one-piece skive crimp ferrule
136-24	1-1/2" SAE100R13 hydraulic hose
9600-24	1-1/2" one-piece skive crimp ferrule
136-32	2" SAE100R13 hydraulic hose
9600-32	2" one-piece skive crimp ferrule

Technical details:

Use of 9600 fitting with SAE100R13 hydraulic hose in sizes above 1" is no longer recommended.

Rationale:

Pulsar Interlock 8600 fittings provide increased impulse life, and a mechanical interlock mechanism to resist fitting blow-off type failures. Since application environments vary widely, and cannot be controlled by PULSAR, only Interlock fittings are approved for extreme applications.

Affected documents:

PULSAR Master Crimp Chart #: 63 Rev 05/05

PULSAR Crimper Specific Charts:

<u>Crimper Model</u>	<u>Chart #</u>
D205M	63 Rev 05/05
P32M	63 Rev 05/05

Note: Charts provided for other brands of crimpers may be affected. Please consult the PULSAR website for updated charts.



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May, 2007

Re: Pulsar Crimping Diameter Revisions-2007

Please download the following new crimp charts for yourself, any of your branch operations or any customers who may be crimping these affected coupling/hose combinations. Crimp charts can be viewed and downloaded from www.pulsarhydraulics.com. If you see your crimper model listed on the website, download the chart number indicated below for your crimper model, if you crimp the coupling/hose combinations shown below. If your crimper model is not listed, download the chart number required from "Complete Charts (Not Crimper Specific)". The chart number is shown on each website chart near the top right corner.

<u>Affected Coupling</u>	<u>Crimp Change with Hose Style</u>	<u>NEW Crimp Diameter</u>	<u>OLD Crimp Diameter</u>	<u>Download Chart #</u>
5502-06	111-06	obsolete	19.6mm	17
5502-06	112-06	obsolete	19.5mm	37
5502-06	122-06	obsolete	20.5mm	18
5512-06	111-06	20.6mm		17
5512-06	112-06	20.5mm		37
5512-06	122-06	21.8mm		18

Please accept our apology for any inconvenience this may cause you.



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<u>Affected Coupling</u>	<u>Crimp Change with Hose Style</u>	<u>NEW Crimp Diameter</u>	<u>OLD Crimp Diameter</u>	<u>Download Chart #</u>
5904-04	111-04	17.5 mm	17.1 mm	Chart 21
5904-06	124/115-06	REPLACE FERRULE WITH 5905-06		Chart 23/24
5904-08	124/115-08	REPLACE FERRULE WITH 5905-08		Chart 23/24
5904-32	124-32	75.0 mm	75.3 mm	Chart 23
5504-16	124-16	43.9 mm	44.2 mm	Chart 32
9400-16	124-16	43.9 mm	44.2 mm	Chart 42
(All 9400 series one-piece couplings for 1" hose)				
5508-XX*	172/182-XX*	REPLACE FERRULES WITH 5507-XX*		Chart 77-78
(*All sizes)	(*All sizes & variations of 172 and 182 hose, including twin and non-conductive)			

Please accept our apology for any inconvenience this may cause you.



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January, 2007

Re: New Hydraulic SUPERTUFF Coupling Plating

You may have noticed that the color of most Pulsar crimp couplings has been changing from a “gold” appearance to “silver”.

The “gold” appearance indicates the plating contains Cr6 hexavalent chromium. The European Communities Commission (EU) has classified Cr6 as an environmentally hazardous substance, and consequently, restrictions on its use are increasing. North American transportation manufacturers are driving the change to **Cr6 chromium6 free plating** to ensure the European market remains open to their products and to conform to global standards.

The new SUPERTUFF plating is **Cr6 chromium6 free** and offers improved corrosion protection, up to 400 hours of red rust corrosion protection when subjected to rigorous SAE J516 and ASTM B-117 salt spray conditions. Couplings with the new plating require no change in assembly procedures or assembly torque values.

The Cr6 free SUPERTUFF Plating is an example of Pulsar’s commitment to be a leader in the supply of products designed and developed to achieve long service life and reliability.