1"-20 UNF EXTRUDER RUPTURE DISKS

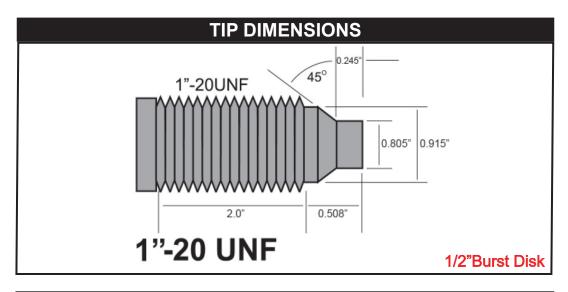
STANDARD FEATURES-

Max Temp - 750°F Inconel Diaphragm 304 SS Body +/-5% Accuracy Welded Design Ranges from: 0-1500 to 14,500psi 100% Leak tested

OPTIONS

Max Temp - 1000°F Hastelloy Diaphragm DischargeThreads: 1/4"NPT 3/8"NPT 1/2"NPT Others Custom Tip Dimensions MPI

pg.6





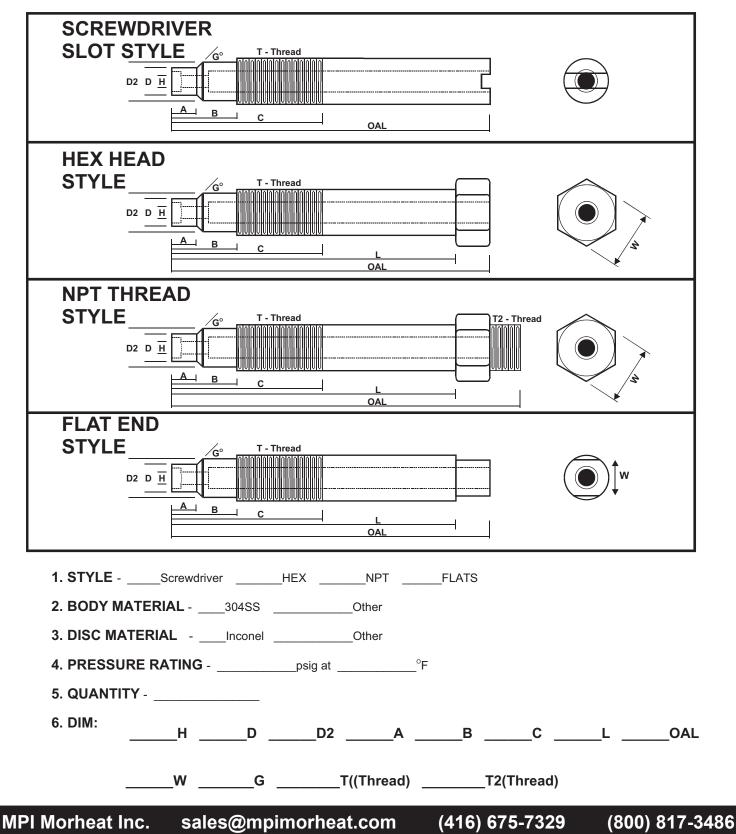
STOCK LIST - 1"-20 UNF Thread				
LENGTH	3000psi	3500psi	5000psi	
5.5"OAL - HEX	RP1020.55-3000	RP1020.55-3500	RP1020.55-5000	
8.0"OAL - HEX	RP1020.80-3000	RP1020.80-3500	RP1020.80-5000	
10.5"OAL - HEX	RP1020.105-3000	RP1020.105-3500	RP1020.105-5000	

CUSTOM RUPTURE DISK DESIGNS

MPI

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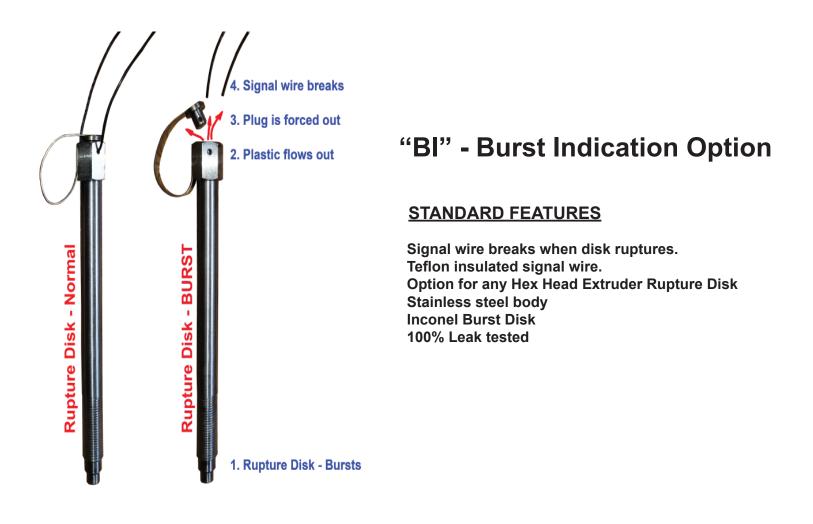
CUSTOM RUPTURE DISK SPECIFICATION SHEET



RUPTURE DISK with BURST INDICATION OPTION

MPI

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Extruder Rupture Disks with Burst Indication (option - BI) offers an inexpensive signal output when the disk ruptures. A plug is fitted at the discharge end. A small hole if drilled through the hex head where a small diameter teflon insulated signal wire is placed through. When a rupture disc discharges, plastic flow causes the plug to pop out and shear the signal wire. This sheared wire can be used to send a signal to the control system.

BI - Burst Disk Option - can be added to any hex head rupture disk and can ship the same/next day.

ORDERING INFO

Using stock - Part# RP1206-7500 - 1/2"-20unf x 6"L + Hex , 7500psi

With BI option - Part# RP1206-7500-BI - 1/2"-20unf x 6"L + Hex , 7500psi c/w BI - Burst Disk option



TRANSDUCER / RUPTURE DISK - TIP SPACERS

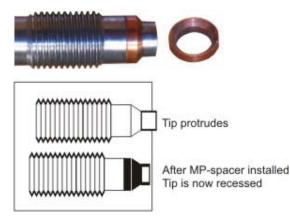
MPI melt pressure transducer/transmitter tip spacers are often used on old extruder barrels where sensor tips are protruding into the melt stream. Transducer tips should be recessed from the inner extruder barrel wall by approximately 0.010"-0.020" to prevent excessive wear and early failure of transducer diaphragms. Our tip spacers essentially push the diaphragm back from the inner wall, as shown in the diagram.

Melt Pressure Transducer Tip Spacer Features

Compatible with Dynisco, Gefran, GP50, and other melt pressure transducers and transmitters

Available in thicknesses from 0.020" to 0.093"

Material options: copper, brass, stainless steel



STOCK LIST - TIP SPACER				
THICKNESS	1/2"-20 UNF	5/8"-11 UNC	3/4"-16 UNF	
0.025" (0.64mm)	MP-SPACER-025	MP-SPACER5-025	MP-SPACER3-025	
0.032" (0.81mm)	MP-SPACER-032	MP-SPACER5-032	MP-SPACER3-032	
0.045" (1.14mm)	MP-SPACER-045	MP-SPACER5-045	MP-SPACER3-045	
0.063" (1.60mm)	MP-SPACER-063	MP-SPACER5-063	MP-SPACER3-063	
0.090" (2.29mm)	MP-SPACER-090	MP-SPACER5-090	MP-SPACER3-090	
	0.025" (0.64mm) 0.032" (0.81mm) 0.045" (1.14mm) 0.063" (1.60mm)	THICKNESS 1/2"-20 UNF 0.025" (0.64mm) MP-SPACER-025 0.032" (0.81mm) MP-SPACER-032 0.045" (1.14mm) MP-SPACER-045 0.063" (1.60mm) MP-SPACER-063	THICKNESS 1/2"-20 UNF 5/8"-11 UNC 0.025" (0.64mm) MP-SPACER-025 MP-SPACER5-025 0.032" (0.81mm) MP-SPACER-032 MP-SPACER5-032 0.045" (1.14mm) MP-SPACER-045 MP-SPACER5-045 0.063" (1.60mm) MP-SPACER-063 MP-SPACER5-063	

M18 to 1/2"-20UNF ADAPTOR

1.6"(40mm) 1.6"(40mm) 1/2-20UNF → M18x1.5 Part# MP-AD-M18-1/2UNF

MPI - M18x1.5 to 1/2"-20UNF adapters can be used as an emergency replacement to convert a stock 1/2"-20UNF transducer/transmitter to fit in a M18x1.5 non-stock pressure port.

Available - standard stock.

TRANSDUCER HOLE PLUG



MPI - Transducer hole plugs can be used to close a transducer pressure port that is no longer required.

Material - 304SS

STOCK LIST - HOLE PLUG				
LENGTH	1/2"-20 UNF	5/8"-11 UNC	3/4"-16 UNF	
1.82" - SLOT	MP-PLUG-2			
3" + HEX	MP-PLUG-3			
6" + HEX	MP-PLUG-6		MP-PLUG3-6	
7" + FLATS		MP-PLUG5-7		
8" + HEX	MP-PLUG-8		MP-PLUG3-8	

RUPTURE DISK - ACCESSORIES

MOUNTING HOLE DRILL KITS

MPI

pg.12



MPI melt pressure transducer and transmitter mounting hole drill kits are used to make the highly precise holes that are required for proper pressure sensor and extruder rupture disk operation. Our drilling kits include tools for tip hole drilling, 45° seat surface, and thread tapping.

Drilling kits are available for the following threads: $\frac{1}{2}$ -20UNF, 5/8-11NC, $\frac{3}{4}$ -16UNF, M18x1.5, and M14x1.5. Custom thread options are also available.

Please note that the drilling should be performed with zero pressure in the system.

STOCK LIST - DRILL KITS		
MODEL	THREAD	
MP-DRILL-1/2	1/2"-20 UNF	
MP-DRILL-5/8	5/8"-11 UNC	
MP-DRILL-3/4	3/4"-16 UNF	
MP-DRILL-M18	M18x1.5	
MP-DRILL-M14	M14x1.5	

RUPTURE DISK - ACCESSORIES

MOUNTING HOLE CLEANING KITS

MPI

pg.13



MPI melt pressure transducer/transmitter mounting hole cleaning kits are used to clean plastic residue from dirty or plugged holes before installing pressure sensors or extruder rupture disks. Hardened plastic residue is one of the leading causes of failures of melt pressure sensors or extruder rupture disks. The hardened plastic residue can damage the fragile diaphragm on the tip of the pressure sensors and extruder rupture disks, and can make them ineffective.

Cleaning kits include tools for tip hole cleaning, 45° seat surface, and thread cleaning. Please note that the cleaning should be performed when the polymer is molten, with zero pressure in the system.

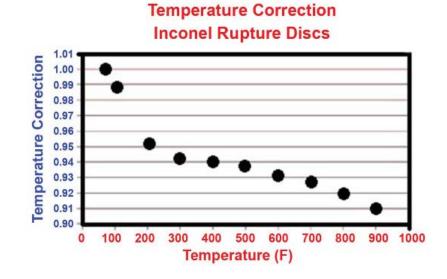
Cleaning kits are available for the following threads: $\frac{1}{2}$ -20UNF, 5/8-11NC, $\frac{3}{4}$ -16UNF, M18x1.5, and M14x1.5. Custom thread options are also available.

STOCK LIST - DRILL KITS		
MODEL	THREAD	
MP-CLEAN-1/2	1/2"-20 UNF	
MP-CLEAN-5/8	5/8"-11 UNC	
MP-CLEAN-3/4	3/4"-16 UNF	
MP-CLEAN-M18	M18x1.5	
MP-CLEAN-M14	M14x1.5	

BURST PRESSURE - TEMPERATURE DERATING

MPI

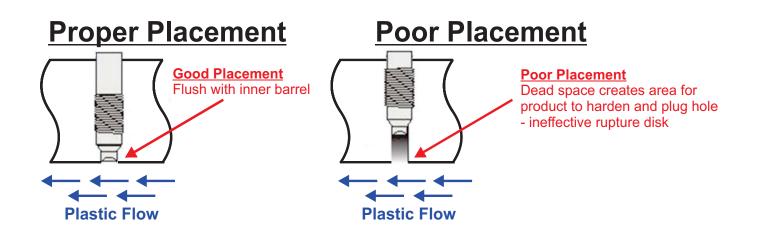
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MPI's extruder rupture disks incorporate a standard Inconel burst disk. The Inconel disk allows the bursts plugs to be used over a wide temperature range with minimal burst pressure changes (a change of approximately 2% over the 300°F-600°F range). The chart below will help users estimate changes in rating based on temperature.

Note: The above chart is only valid for Inconel disk material. Other materials will have different derating curves.

PROPER EXTRUDER RUPTURE DISK INSTALLATION



To ensure proper operation, MPI's extruder rupture disks must be installed correctly. They must be installed flush with the inner extruder wall with a small recess of approximately 0.020". Too much dead space can allow the plastic material to harden and form a plug, which can cause the extruder rupture disks to be ineffective and create a safety hazard.

MPI MELT PRESSURE - Other Products

MPI MELT PRESSURE PRODUCTS
TRANSDUCERS & TRANSMITTERS
750°F (400°C) Mercury Fill 660°F (350°C) Mercury Free Fill 1000°F (538°C) NaK - Mercury Free Fill
INDICATORS , GAUGES, RUPTURE DISKS
TABLE of CONTENTS
MELT PRESSURE MELT PRESSURE MP STANDARD TRANSDUCERS. pg. 2 MG DIGITAL GAUGES

New Catalog available

MPI

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MPI Melt Pressure (MPI) is a customer needs-driven manufacturer of plastic melt pressure products that has been operating out of Toronto, Canada since 1999. MPI is staffed by engineers and technicians with an average of 20 years of industry experience. We work hard to ensure that all our products provide a worry-free experience.

MPI Melt Pressure offers products to directly replace models from Dynisco, Gefran, Gentran, Terwin, ISI, and GP50 with no wiring changes required.

Our huge, in-stock inventory helps minimize your downtime. 90% of orders are shipped same-day and delivered next-day to the United States and Canada. We also provide full engineering and technical support via telephone from 8am-4pm EST.

Products manufactured by MPI Melt Pressure Include :

Melt Pressure Transducers Melt Pressure Transmitters Melt Pressure Digital and Mechanical Gauges Melt Pressure Indicators and Alarms Extruder Rupture Disks



MPI Melt Pressure has built Melt Pressure Transducers and Transmitters and Extruder Rupture Disks at our factory in Toronto, Canada since 1999. MPI engineers bring over 50 years of experience visiting and solving technical problems in the plastic extrusion industry in some of the most difficult environments. During this time we have experienced just about all the types of problems that can be encountered, and use this vast knowledge base to assist all our current customers.

Our philosophy is to provide cost competitive Melt Pressure Transducers, Transmitters and Rupture Disks with the quickest delivery and best technical support in the industry. Currently, 90% of our custom products ship out within 1-2 days. Our goal is to ship all orders the same day as we receive the order.

MPI provides full manufacturing operations in our Toronto plant including design, assembly, full testing and certifications in house. We have a fully trained manufacturing staff, with in house technicians and engineers available 12 hours, 5 days a week to aid customers with design selection and technical issues.

With continuous product development at our R&D lab we have implemented a Six Sigma philosophy with Lean manufacturing for continuous improvements. These continuous advancements translates to leading edge products with the best delivery for our customers.

Call MPI anytime you need Melt Pressure Transducer/Transmitter or Rupture Disks guidance or quick delivery of custom made products.



REPRESENTATIVE

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Dist.aug.2018

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