

Rupture Disk

BP224 Series





Certification :

ISO9001-2015

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Rupture Disk

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1. Introduction

Rupture Disk (means bust plug) BP224 series are made by 17-4PH in use of pressure releasing for emergency circumstances. The diaphragm will burst while pressure overloaded to protect the machine and operator from explosion damage

2. Application

Fiber machine, Rubber-plastic machine, Polymer machine etc

3. Product Features

- Burst pressure range: 0...2500psi to 0...15000psi
- Low installation and maintenance costs
- Reliable protection of personnel and machinery
- Robust sensing element
- Designed for extrusion applications

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Rupture Disk

4. Technical data

Pressure range :	0…2500psi, 0…15000psi				
Temperature range :	0…400C°				
Material :	304 stainless steel				



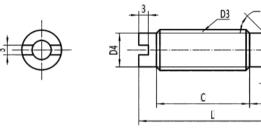
45°

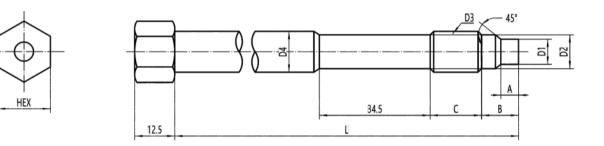
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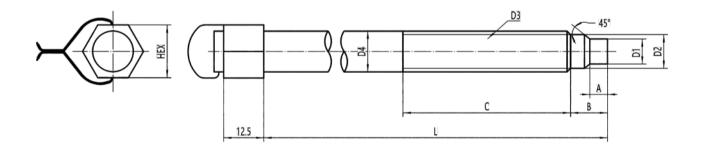
Rupture Disk

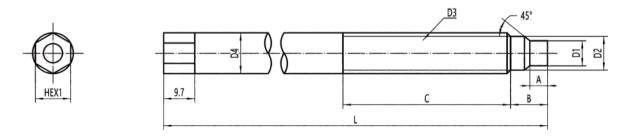
D2

5. Dimensions











Rupture Disk

Product Type	D3	D1	D2	А	В	D4	HEX
	1/2-20UNF	Φ7.8	Ф10.5	5.5	11.5	Ф12.7	16
Standard	M14X1.5	Φ7.8	Φ11.5	5.5	11.5	Φ12.7	16
Standard	M18X1.5	Ф9.8	Ф15.8	5.5	14	Φ12.7	16
	5/8-11UNC	Ф8.9	Ф12.4	6	14	Φ12.7	16
Product Type	D3	D1	D2	А	В	D4	HEX1
Y type	1/2-20UNF	Φ7.8	Ф10.5	5.5	11.5	Φ12.7	11

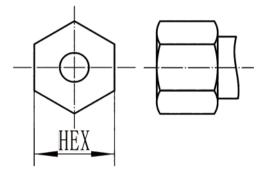
04 -

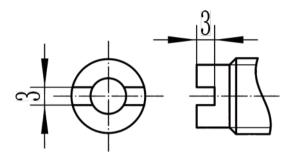
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Rupture Disk

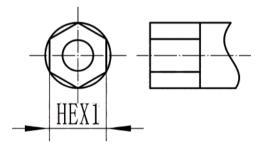
6. Lock Type

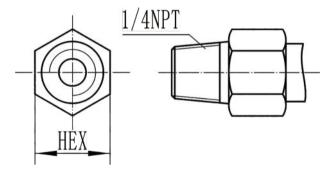




HEX Nut

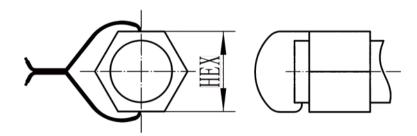
Slotted Nut





Milling HEX

HEX 1/4 NPT Fitting



HEX with alarm



Rupture Disk

7. Ordering Guide

Serie No	BP224	Х	- x	- X	- X	Х	- X
Product Type	Stanadard						
Product Type	Ү Туре	Y					
	17MPa 170bar 2500psi		2.5M				
	20MPa 200bar 3000psi		3M				
	25MPa 250bar 3500psi		3.5M				
	35MPa 350bar 5000psi		5M				
Pressure Range	50MPa 500bar 7500psi 7.5M						
	60MPa 600bar 8500psi 8.5M						
	65MPa 650bar 9500psi 9.5M						
	70MPa 700bar 10000psi		10M				
	85MPa 850bar 12500psi		12.5M				
	100MPa 1000bar 15000psi		15M				
	1/2-20UNF			1/2			
Process	M14×1.5			M14			
Connection	5/8-11UNC			5/8			
	M18×1.5			M18			
	46mm				1.8		
	64mm				2.5		
	76mm						
	102mm						
Rigid stem	152mm				6		
Length	178mm				7		
	203mm				8		
	228mm				9		
	317.5mm				12		
	xmm				xmm		
	Stanadard						
	25.4mm					L25.4	
	29mm					L29	
Thread length	41mm					L41	
	53mm					L53	
	58mm					L58	
	xmm					LX	
	Hex Nut						Ν
Locking type and	Slotted Nut						S
polymer discharge	Milling Hex						М
Options	Hex with Alarm						К
	Hex 1/4NPT Fitting						1/4NPT



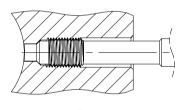
Rupture Disk

8. Installation & Removal

When installing the rupture disk, the rupture disk hole should be within the size requirement marked in following drawing and the assembly accuracy can be checked by testing bolts. Before installing the rupture disk, first clean the impurities in the hole and between the threads, then the thread of the sensor is coated with heat-resistant slurry, the screw teeth can be avoided.

The installation force is very important, the installation torque of the rupture disk can only act on the shaft (hexagon), do not apply any force to its head. The housing should be kept away from high temperature areas.

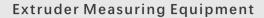
1/2-20 UNF /M14×1.5= Maximum starting torque: 40Nm M18 x 1.5 = Maximum starting torque: 50 Nm



×



07

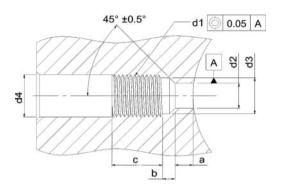




Rupture Disk

Removal

Rupture disk removal must be completed under heating conditions (plastic melting point). When removing the rupture disk, note that the diaphragm does not contact the pressure. The force to unload the rupture disk must be applied on the shaft (HEX).



d1	M18X1.5	M14X1.5	1/2-20UNF-2A
d2	Ø 9 9 ^{+0.1}	Ø 7.9 ^{+0.1}	Ø 7.9 ^{+0.1}
d3	Ø 16.1 ^{+0.1}	Ø 11 7 ^{+0.1}	Ø 10.7 ^{+0.1}
d4	ø 20	ø 15	ø 14
а	$6.1^{-0.1}$	5.7 ^{-0.1}	5.7 ^{-0.1}
b	4 ^{-0.2}	3.2 ^{-0.2}	3.2 ^{-0.2}
С	25	19	19

9. Transport and storage

Bp224 Rupture disk's induction diaphragm is protected by a protective cap, which should be tightened at any time of storage and opened only when installed.

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