DATA SHEET

EXTRUDER BURSTING DISCS
TYPE ERD

DESCRIPTION

In the plastics processing industry, extrusion machinery is used in the production of many products, such as blown film, profile, sheet, tubing, pipe, rod, wire coat, fibre spinning, and palletising. The plastic is molten and pumped into a die under pressure, generated by a screw or a melt pump.

High pressure is the basic parameter of the extrusion process and, therefore, safety is of paramount importance. Special pressure transducers are used to monitor and control every stage of the extrusion process. The pressures are usually measured at the die, along the barrel, at the screen changer and the melt pump. Many reasons, such as loss of temperature control, foreign material, and clogged screens can result in excessive pressure build-up. Too much pressure can lead to excessive wear of the machinery and damage to the screen, die or extruder barrel.

APPROVALS:

- CE

FEATURES AND BENEFITS

- A passive device designed to give an instantaneous, unrestricted relief opening
- Mounted flush with the inner wall of the extruder barrel
- Interchangeable with most pressure and temperature transducers used in extrusion machinery
- Burst diameters are available in ranges from DN4.5 to DN150. Larger sizes can be provided on a special order basis.
- Materials of construction are stainless steel for the body with the bursting disc in 316 SST, Nickel, Inconel or Monel. Alternative materials available on request.

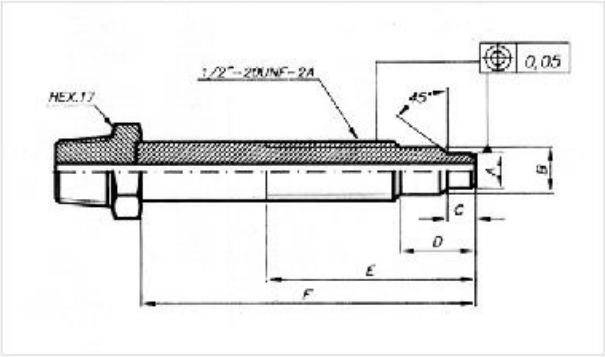
SPECIFICATIONS

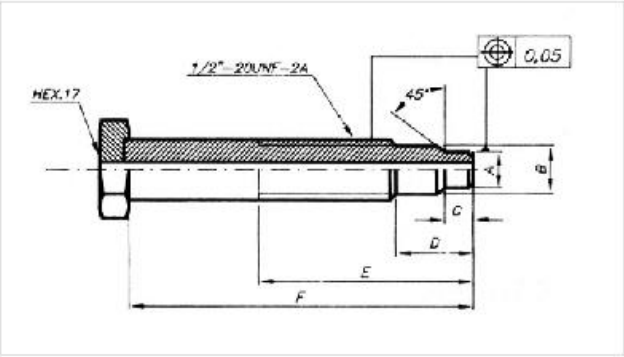
Type of Disc	ERD Extruders	
Model	636000	636001
Outlet	Free outlet	¼" NPT male threaded outlet connection
Available Size Range	DN4.5 – DN1510	
Length [1]	150mm	
Materials of Construction [2]	Body: 1.4301 (304 SST) Disc: Inconel® 600	
Assembly	Microtig welded	
Ratio of Operating Pressure to Minimum Burst Pressure	95%	
Burst Pressure Range	From 80 to 1000 mbarg – up to 600°C	
Burst Pressure Tolerance	Standard: ± 10% Reduced: ± 5%	
Compatibility	Interchangeable with Dynisco, Terwin and Wika pressure transducers	

(1) Other dimensions are available on request. Consult Fike.
(2) Other materials are available on request. Consult Fike.

DIMENSIONS

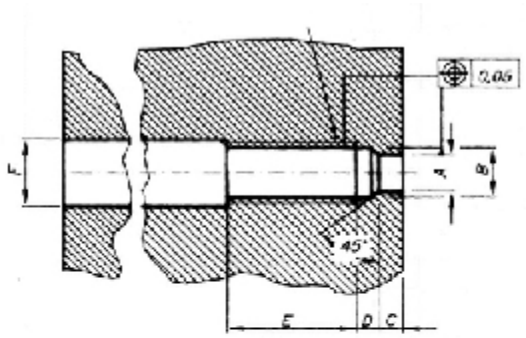
DWG No.	Outlet	DN	A	B	C	D	E	F	Thread
636000	Free	DN4.5	7.77	10.96	5.44	12.00	52.00	152.50	½" – 20UNF-2A
636001	¼" NPT male								

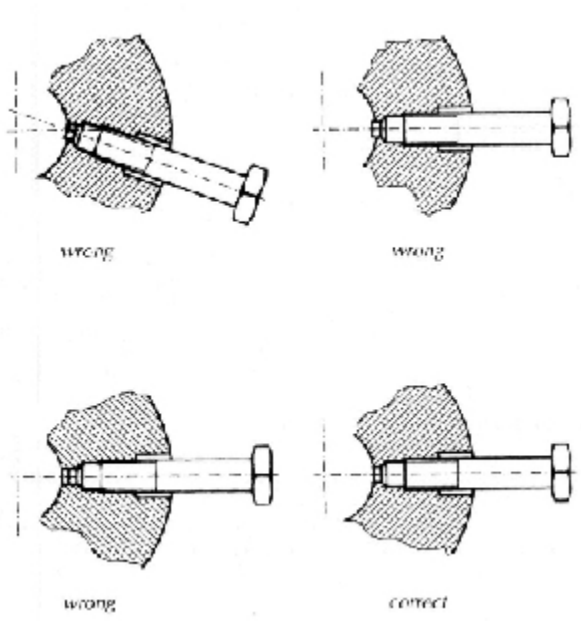




MOUNTING HOLE DETAILS (IN MM)

DWG No.	Outlet	A	B	C	D	E	F	Thread
636000	Free	7.95±0.03	11.54±0.09	5.70 min	4.30 max	19.00 min	130.8 max	½" – 20UNF-2B
636001	¼" NPT male							





ORDER INFORMATION

When ordering Fike ERD devices, specify model number, body configuration, body and disc material, required burst pressure and temperature, operating pressure and temperature, and process media. When reordering, specify the serial number of the unit being replaced. If dimensions are other than specified in table above, specify nominal diameter and dimensions A to E.

For any further information, contact Fike or your local representative.