



# Ceramic Plungers

Increased Hardness / Increased Corrosion Resistance

Bruin Instruments offers ceramic coated plungers for increased corrosion and wear resistance. The coating consists of sub-micron ceramic particles bonded to a stainless steel plunger. The chemical bond, particulate hardness and polished surface finish of the dense ceramic result in unrivalled wear resistance with improved protection from the harshest of chemical environments.



## Benefits

The coating increases surface hardness and improves the component life significantly. An extremely fine grain structure reduces friction and gives the plungers extraordinary wear resistance. The solid, porosity free coating creates an anti-fouling barrier and increases plunger life in the most corrosive environments.

- Low Friction, Increased Packing Life
- Extreme Wear Resistance
- Increased Corrosion Resistance
- Improved Anti-Galling Surface

## Density

The coating process produces no exposed porosity and completely protects plunger from corrosive chemical damage.

## Hardness

Composite Hardness: 1000 - 1800 Vickers

In comparison to standard 17-4 Stainless Steel plungers: ~286 Vickers

316 Stainless Steel plungers: ~150 Vickers

## Ceramic Plunger Part Numbers

	PLUNGER SIZE						
	3/16"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"
<b>BR1200, BR4300</b>	BB-1613	BB-1615	BB-1617	BB-1619	BB-1688	BB-1689	N/A
<b>BR2400</b>	N/A	BA-6736	BA-6737	BA-6738	BA-6739	BA-6740	BA-6741
<b>BR5000</b>	N/A	BA-6335	BA-6337	BA-6339	BA-6341	BA-6343	BA-6345
<b>BR5100</b>	BA-6286	BA-6288	BA-6290	BA-6292	N/A	N/A	N/A
<b>BR6000</b>	N/A	BE-0036-01C	N/A	BE-0036-02C	N/A	N/A	N/A
<b>BRX3</b>	BA-6687	BA-6688	BA-6689	BA-6690	N/A	N/A	N/A