DCI Corporation offers many configurations of Automatic Back Pressure Regulators (ABPR), use the chart below to select the ABPR that fits your needs

Model		Max Rated Pressure		Porting Options*		Body Material		Seal Material**		Diaphragm Material***	
Order Code	Description	Order code	Description	Order code	Description	Order code	Description	Order code	Description	Order code	Description
ABPR	Automatic Back Pressure Regulator	05	5,000 psi	NPT	1/4"NPT	SS	316/316L Stainless Steel	V	Viton	PTFE	PFFE/Glass Laminate
		10	10,000 psi	HiP	AuctoClave SF250CX 1/4" Tube	HC	Hastelloy C276	K	Kalrez	SS	316/316L Stainless Steel
		20	20,000 psi	HPLC	10-32 HPLC 1/8" Tube	TI	Titanium	PTFE	Teflon PTFE	HC	Hastelloy C-276
				W125	AutoClave Speed-Bite 1/8" Tube	ZI	Zicronium	EPDM	Ethylene Propylene Diene Monomer	PEEK	Polyetheretherketone
				XXX	Non-Standard	XXX	Non-Standard	Buna-N	Nitrile	Poly	Polymide (Kapton)
								XXX	Non- Standard	XXX	Non-Standard

Example Part number: ABPR-10-HiP-HC-PTFE-PEEK = *Automatic Back Pressure Regulaors / 10,000psi / SF250CX Ports / Hastelloy C276 Body/ PTFE Seals / Peek Diaphragm*

Product Description:

The ABPR is a digital automated back pressure regulator that uses state-of-the art motor and control for the best possible accuracy and ease of use. The system uses a 7" touch screen user interface with easy to use intuitive software. All that is required is to enter a desired back pressure set point and start control, the software's control algorithms take care of the rest. The software can be installed on a separate computer for remote access/control of the automatic back pressure regulator. The back pressure regulator valve body can also be removed from the control box and mounted elsewhere for a more flexible system setup. Other mounting locations can include an oven or other elevated temperature atmosphere. Multiple configurations are available to meet your pressure, fluid, and flow rated needs. Contact a DCI engineer to specify a model number that will fit your testing needs.

Additional Information:

*Not all port types are compatible with all pressures

** Seal material should be selected based on fluids being used and operating temperatures

*** Diaphragm should be selected based on fluids being used, operating temperatures, and flow rates

Seal Material	Additional Information	Diaphragm Material	Additional Information
Viton	Good Oil/Brine Resistance, up to 150°C	PTFE	Up to 10,000 psi, up to 150°C
Kalrez	Good Oil/Brine and CO_2 Resistance, up to 300°C	SS	Pressures greater than 10,000psi, up to 300°C
PTFE	Good Oil/Brine and CO_2 Resistance, up to 150°C	HC	Pressures greater than 10,000psi, up to 300°C
EPDM	Good CO_2 Resistance, Poor Oil Resistance, up to 150°C	PEEK	Up to 20,000 psi, up to 150°C, Good low Flow performance
Buna-N	Good Oil and Solvent resistance, up to 100°C	Poly	10,000 psi pressure, up to 300°C, Good low flow performance

DCI TEST SYSTEMS

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