

BLAST PROTECTION & AIR MANAGEMENT

BVNC – Overpressure Valves



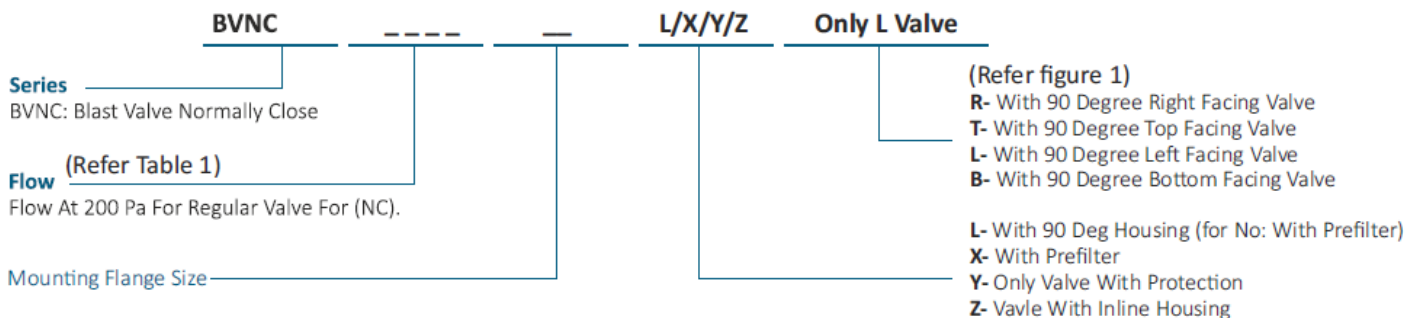
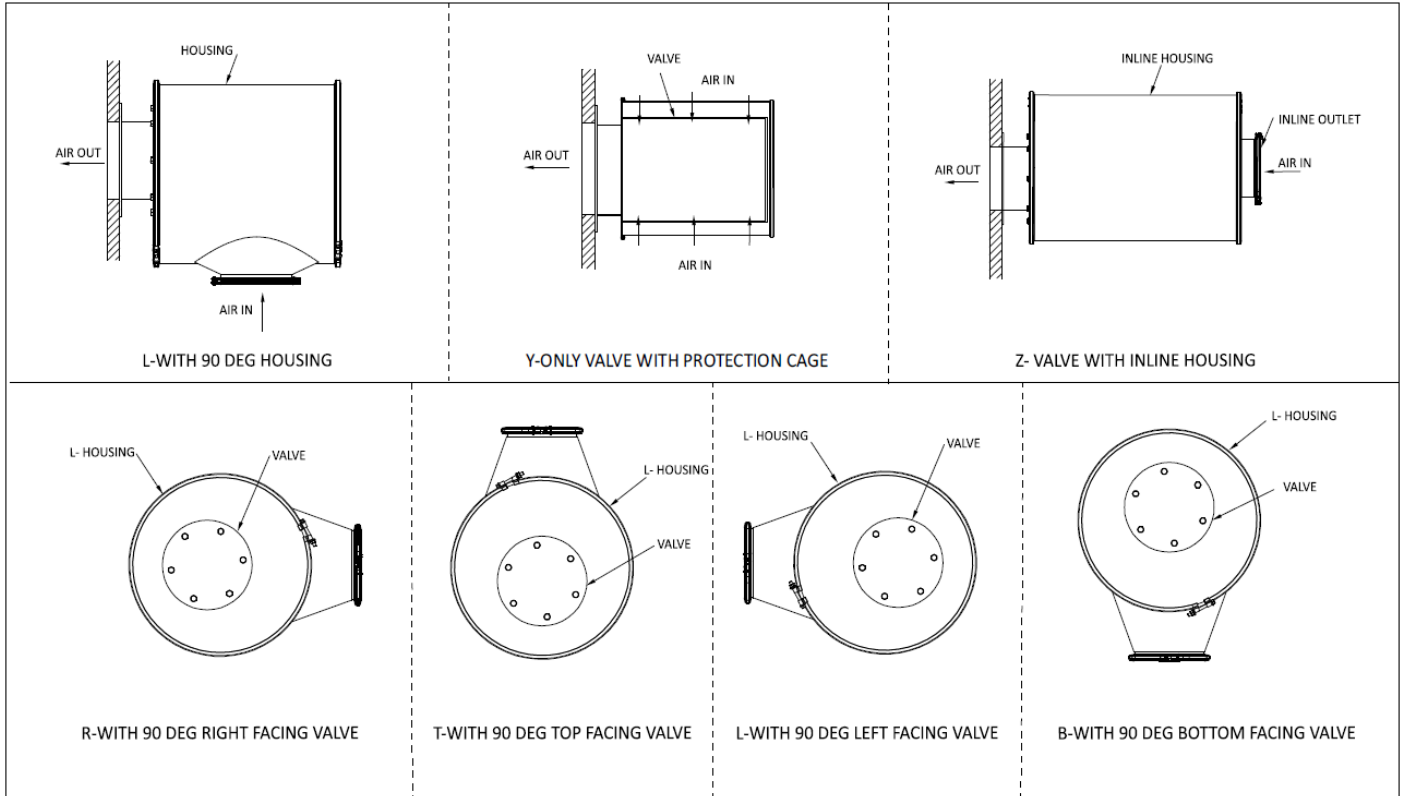
BVNC overpressure valves - normally closed valves designed to maintain or control the differential pressure level in the shelter by releasing the air from the gastight shelter while offering providing protection from external blast wave pressure.

- BVNC overpressure valves were developed for use in civil defence shelters, bunkers, safe rooms and other protected spaces.
- BVNC line of valves includes a wide range of valves for different airflows.
- BVNC are automatic action valves designed to protect from external blast wave pressure
- BVNC designed for controlled release of air from the shelter when positive pressure (overpressure) rises to required level.
- The valves are extremely durable and can operate in a wide range of temperatures and resistant to corrosion.
- The valves are designed for installation on ventilation openings or as part of the duct.

Tested and certified for SI 4570 standard and approved by civil defence authorities in different countries.

Models	BVNC 40	BVNC 300	BVNC 600	BVNC 1500	BVNC 2100	BVNC 3300
Flange size	4 inch	8 inch	8 inch	8 inch	14 inch	14 inch
Airflow @ 200 Pa	40 m3/h	300 m3/h	600 m3/h	1500 m3/h	2100 m3/h	3300 m3/h
Pressure durability operation	>900 (9) kPa (bar)					
Pressure durability max.	>2000 (20) kPa (bar)					
Mech. Shock resistance	>12 g					

How to Select the BVNC Valve

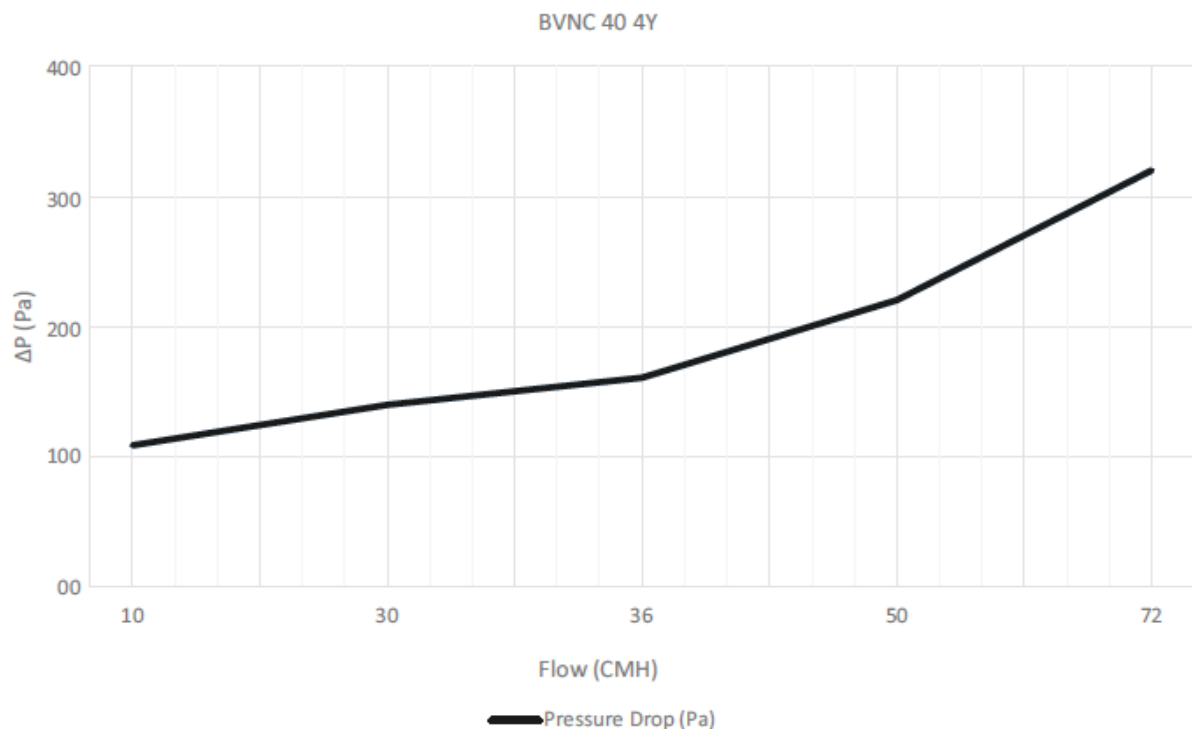
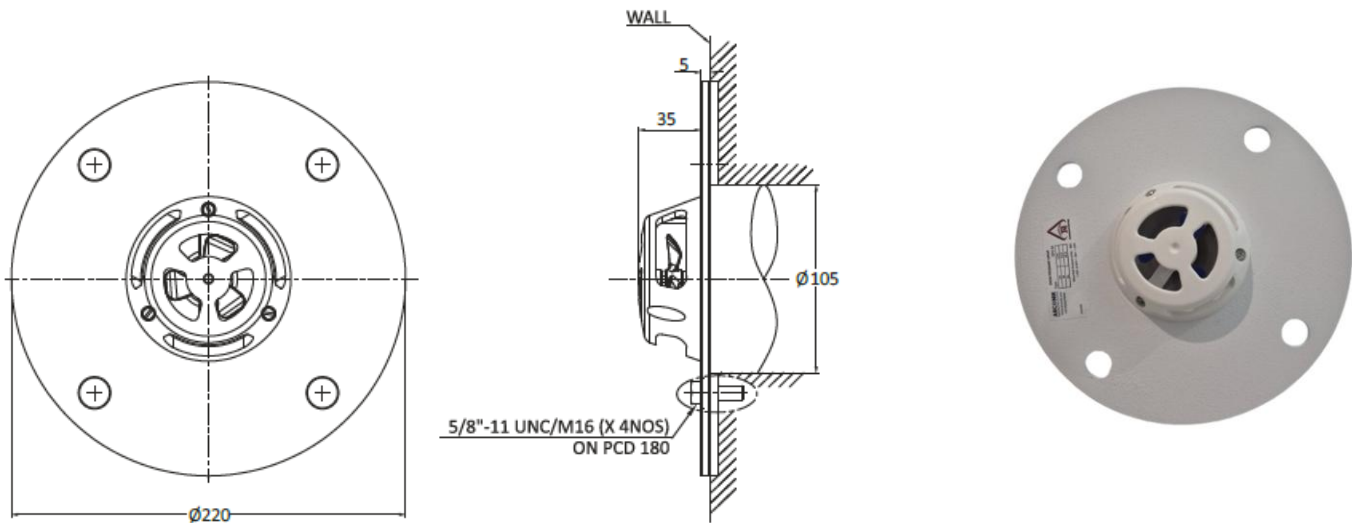


Models to be selected (@ 200 Pa pressure drop)	BVNC 40	BVNC 300	BVNC 600	BVNC 1500	BVNC 2100	BVNC 3300
Airflow range (m3/h)	40-60	60-300	300-600	600-1500	1500-2100	2100-3300

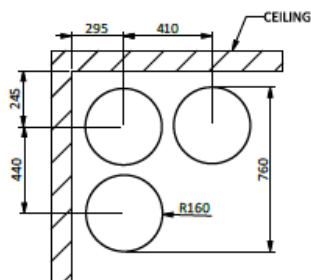
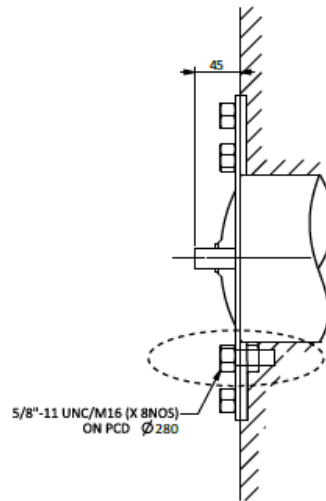
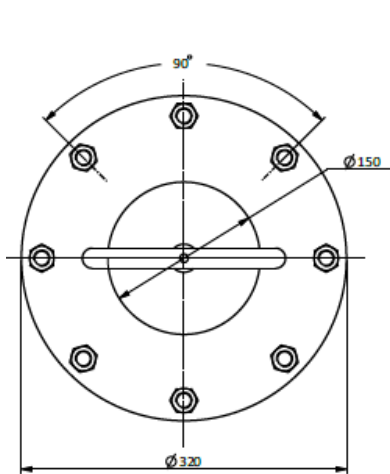
Note: for more options and fittings, please see our detailed catalogue or contact our team

Disclaimer: This document is not a recommendation or a substitute for dedicated professional advice. All technical, functional and other product specifications are subject to change without notice or obligation.

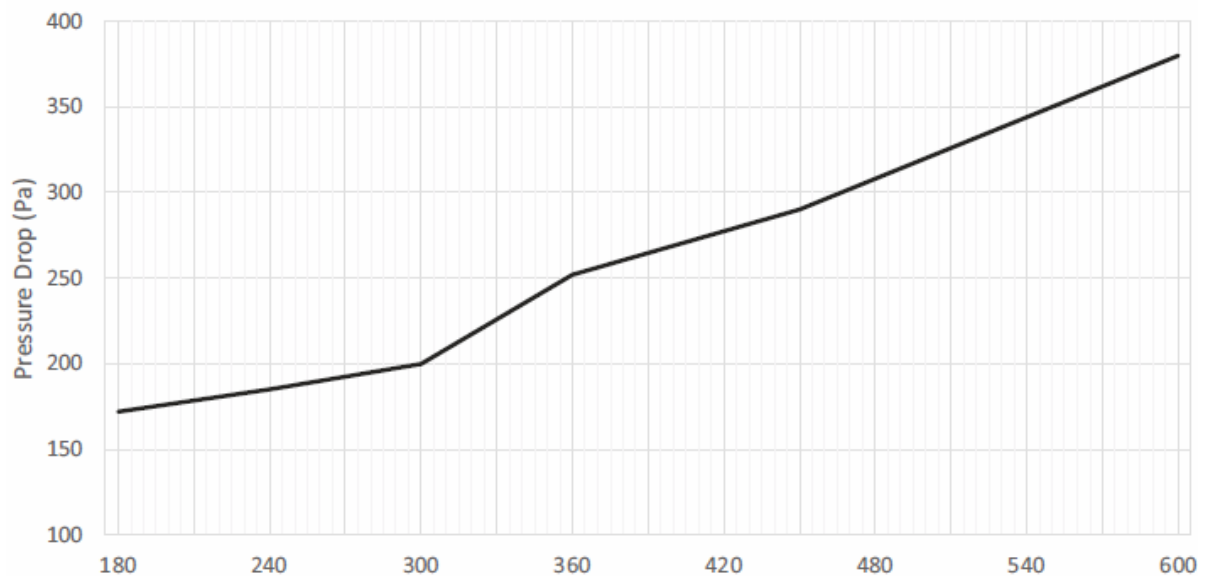
Connecting flange	Operational blast pressure durability	Mechanical shock resistance	Working temperature range
4 inch	>900 (9) kPa (bar)	>12 g	-20 to +70 °C



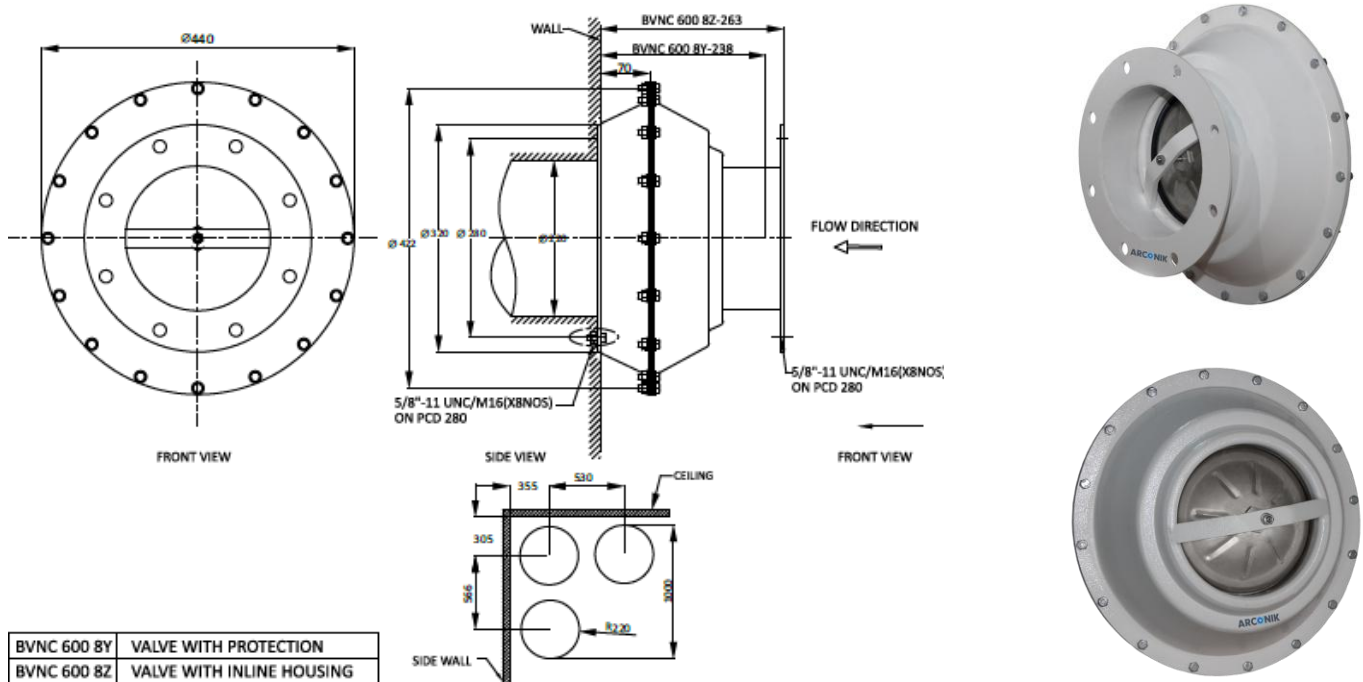
Connecting flange	Operational blast pressure durability	Mechanical shock resistance	Working temperature range
8 inch	>900 (9) kPa (bar)	>12 g	-20 to +70 °C



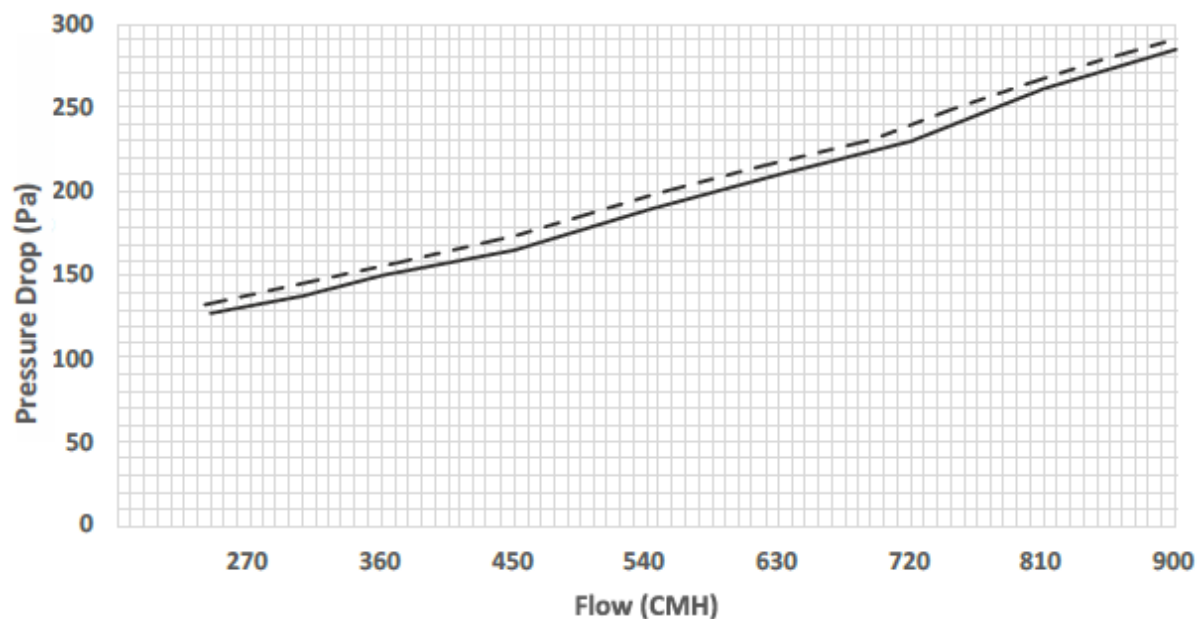
BVNC 300 8Y



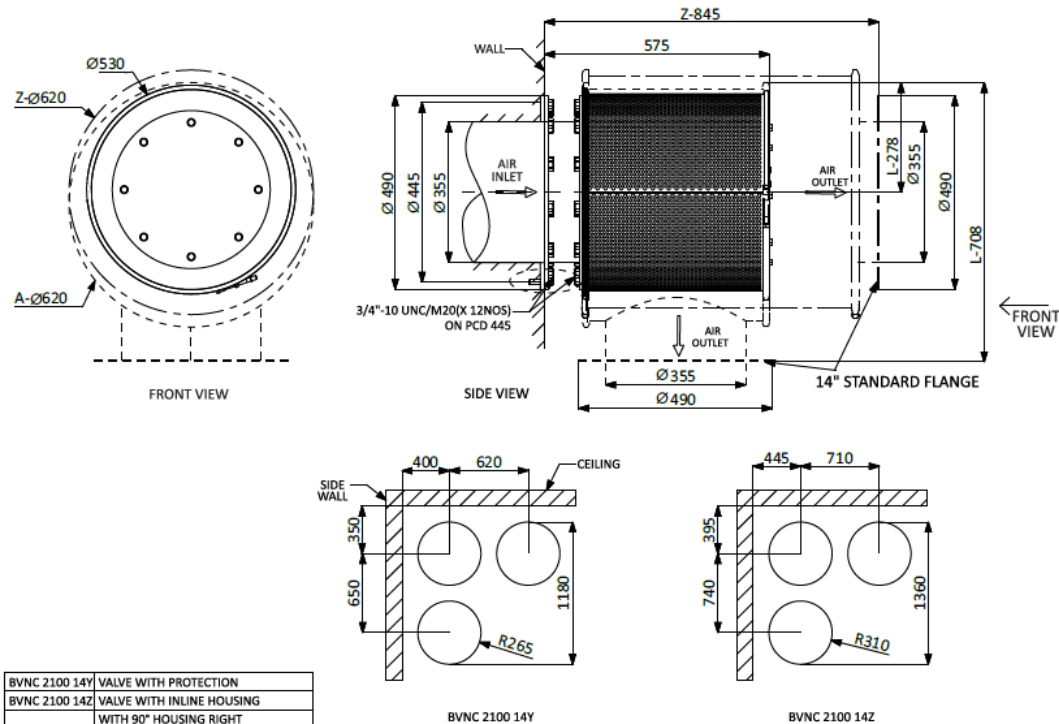
Connecting flange	Operational blast pressure durability	Mechanical shock resistance	Working temperature range
8 inch	>900 (9) kPa (bar)	>12 g	-20 to +70 °C



BVNC 600 8Y AND ALL VARIANTS



Connecting flange	Operational blast pressure durability	Mechanical shock resistance	Working temperature range
14 inch	>900 (9) kPa (bar)	>12 g	-20 to +70 °C



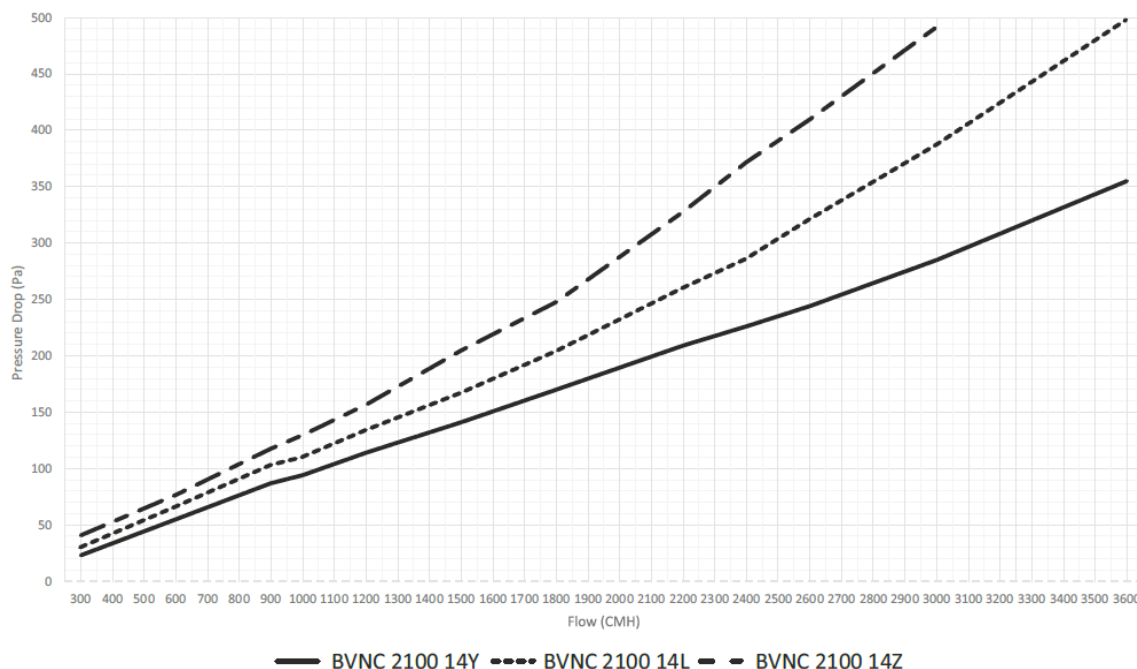
BVNC 2100 14Y	VALVE WITH PROTECTION
BVNC 2100 14Z	VALVE WITH INLINE HOUSING
	WITH 90° HOUSING RIGHT
BVNC 2100 14L	WITH 90° HOUSING LEFT
	WITH 90° HOUSING TOP
	WITH 90° HOUSING BOTTOM

Direction of opening to be confirmed while ordering

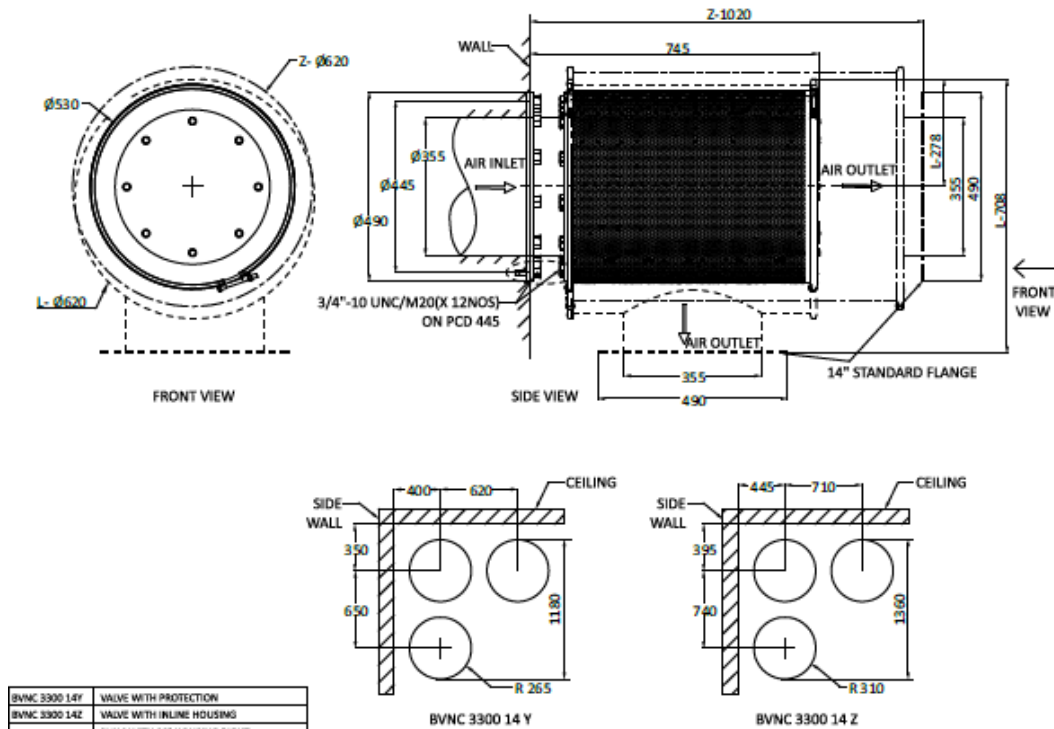
DISCLAIMER: THESE DIMENSION CONSIDER ONLY SIZE LIMITS OF THE VALVE AND DO NOT CONSIDER STRUCTURAL OR OTHER REGULATION OF ANY OTHER STANDARD



BVNC 2100 14Y AND ALL VARIANTS



Connecting flange	Operational blast pressure durability	Mechanical shock resistance	Working temperature range
14 inch	>900 (9) kPa (bar)	>12 g	-20 to +70 °C



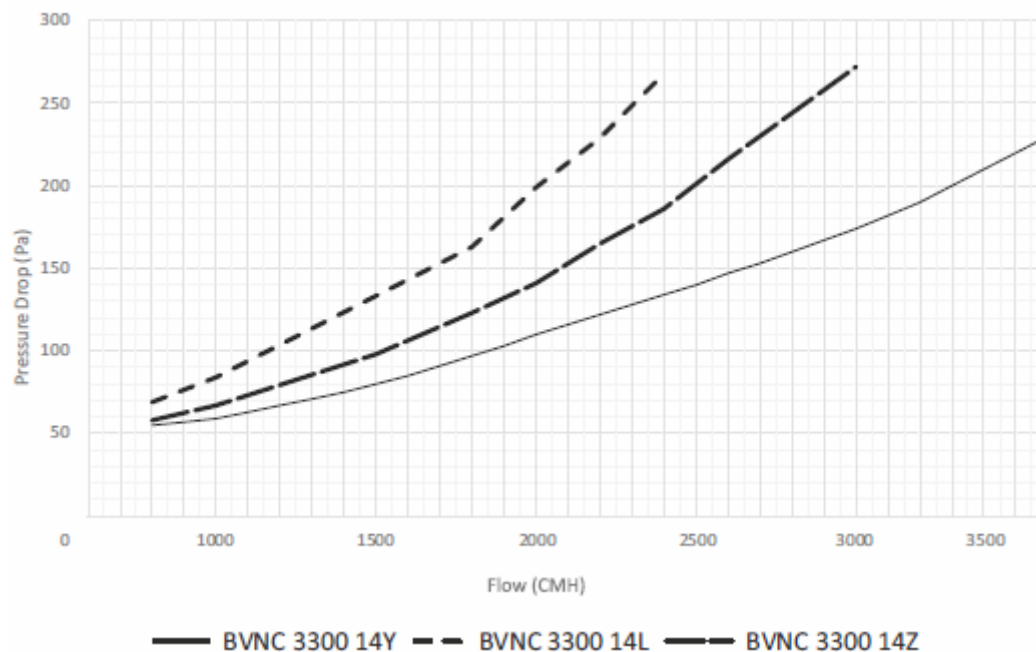
BVNC 3300 14Y	VALVE WITH PROTECTION
BVNC 3300 14Z	VALVE WITH INLINE HOUSING
BVNC 3300 14L	VALVE WITH 90° HOUSING RIGHT
BVNC 3300 14L	VALVE WITH 90° HOUSING LEFT
BVNC 3300 14L	VALVE WITH 90° HOUSING TOP
BVNC 3300 14L	VALVE WITH 90° HOUSING BOTTOM

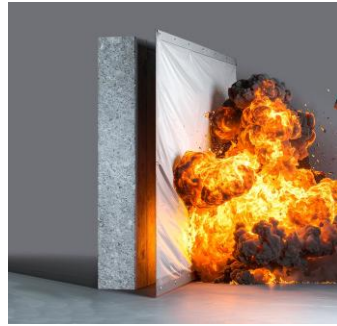
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BVNC 3300 14Y AND ALL VARIANTS





About Atmas

Atmas Group is a Finland-based global supplier of products, technologies, project support services and complete solutions in the areas of civil defense shelters and protected spaces, facilities reinforcement against CBRN, blast, ballistic, forced entry and EMP threats, as well as security, safety and emergency response.

Atmas is trusted by customers and partners around the world providing a unique combination of solutions "under one roof", with a focus on advanced technologies, product customization, uncompromised service and comprehensive project support.

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