

Model 3329 Pilot Operated Pressure Compensating Relay Valve

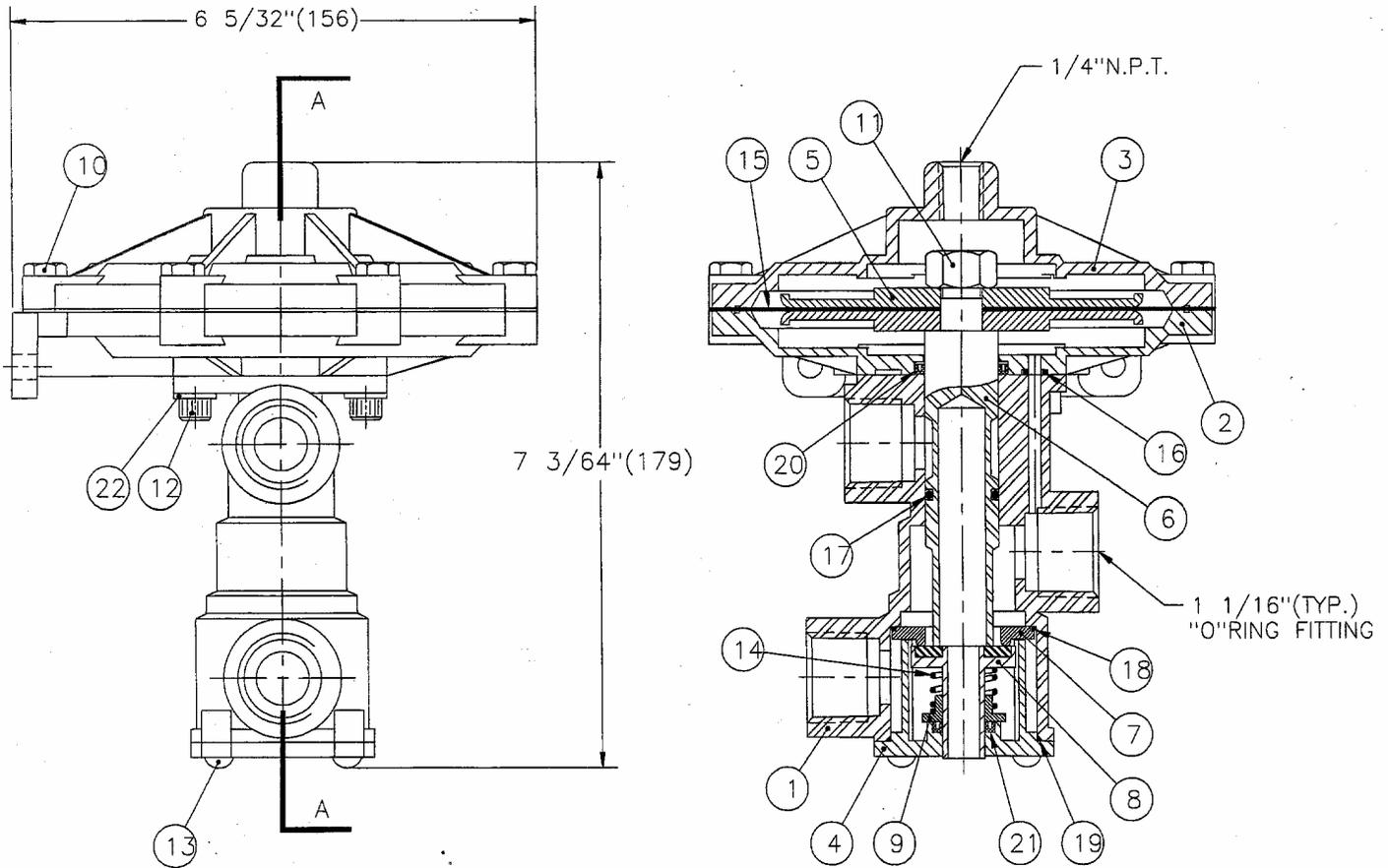
Material: Bronze die-cast and
Stainless steel parts

The purpose of this relay valve is to provide a large volume of air to clutches, brakes or cylinders with a small pilot control. The 3329 is a very accurate control valve and provides ½" full air flow. The pilot line can be controlled from multiple stations. The control valve is constructed entirely with bronze and stainless steel and is ideally suited for all-weather applications.

The 3329 Pressure Compensating Regulating Valve has an upper and lower chamber. The upper chamber can receive a variable control pressure. The diaphragm is depressed downward and the air supply from the main source can flow from the In-port to the Out-port. In the process of generating pressure in the

Out-port, a small passage (balancing line) is provided that sends the same air pressure that is going to the Out-port into the underside of the diaphragm chamber. Therefore, the outlet pressure to the main cylinders or brakes will always equal to the pilot pressure since the diaphragm will settle at equilibrium where the pilot line equals the outline pressure. If the pilot line pressure is reduced, the diaphragm will move upwards. Consequently the valve will move into an exhaust position relieving the excess air pressure to the atmosphere. This valve is extremely responsive to pilot pressure and can accommodate a very large air flow.

Model 3329



Dimensions in inches (mm)

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	3329-0001	Main Body
2	1	3329-0002	Diaphragm Housing (Bottom)
3	1	3329-0003	Diaphragm Housing (Top)
4	1	3329-0004	Poppet Cover
5	2	3329-0005	Diaphragm Washer
6	1	3329-0006	Stem
7	1	3329-0007	Valve Seat
8	1	3329-0008	Poppet
9	1	3329-0009	Seal Retainer
10	8	1001-1012	Hex Bolt
11	1	1022-0264	Hex Jam Nut
12	4	1002-1008	Hex Socket Head Cap Screw
13	4	1010-0808	Round Head Philips Machine Screw
14	1	1201-0108	Spring
15	1	1105-2004	Diaphragm
16	1	1101-0008	"O" Ring
17	1	1101-0208	"O" Ring
18	1	1101-2040	"O" Ring
19	1	1101-0031	"O" Ring
20	1	1102-0008	"U" Cup
21	1	1102-0005	"U" Cup
22	4	1023-0232	Washer