

CASH VALVE™ TYPES CP/CP2 COMPRESSOR PILOT VALVES

Pilot valves for use in rotary screw compressors to control receiver pressure or compressor discharge pressure



FEATURES

- Contribute to significant energy savings.
- Lead to quieter compressor operation and reduced wear.
- Brass body and spring chamber, stainless steel seat, phosphor bronze diaphragm, fiber gaskets as standard.
- Type CP2 has a larger seat for increased capacity.
- Vacuum service and reverse acting models available.
- Choice of side inlet/side outlet, side inlet/ bottom outlet or side inlet/side outlet/bottom outlet configurations.
- Suitable for adaptation to specialized compressor designs.

GENERAL APPLICATION

The pilot valve regulates the air pressure to a cylinder or diaphragm which positions the control device in the compressor suction line and/or the speed control on engine-driven units. Also for maintaining compressor lube oil circulation.

TECHNICAL DATA

Materials: Sizes: Connections: Pressure range: Bronze, Stainless steel ¼", ¾", ½" (7, 10.5, 15 mm) Threaded NPTF 0 to 600 psig (0 to 41.4 barg)

DIMENSIONS

				Dimension	s	
Туре	Size NPS	Connections	Α	В	С	Ship. weight (pounds)
СР	1/4 x 1/4	*	33/8	1/2	21/4	11/8
CP2	1/4 x 1/4	*	41/2	3/4	211/16	21/2
CP2	³ /8 x ³ /8	*	41/2	3/4	211/16	21/2

* Side inlet; side or bottom outlet



Principle of operation

These valves provide a regulated output pressure that increases at a pre-determined rate as the receiver or compressor discharge pressure increases above the pilot's pressure setting. The pilot is provided to increase the pressure, in straight line fashion, on a ratio of 1 to 1, 2 to 1; or whatever ratio or differential control is required for proper compressor functioning.

For example, if the pilot is to start to open when receiver pressure reaches 100 psi and the pilot is operating with a 2 to 1 ratio: the pilot output pressure is 0 psi. On 10 psi increase, the pilot will provide a controlled discharge pressure from 0 to 20 psi as the compressor increases from 100 to 110 psi.

Figure 1 - Performance graph

This graph illustrates the linear output of the Types CP and CP2 valves for a given set point and a variety of ratios and is given in .5 psi increments.



FIGURE 2 - Typical rotary screw compressor system schematic NB: greatly simplified. For specific application details, consult the factory.



Specialized designs

Type CP and CP2 Pilots are suitable for adaptation to specialized compressor designs. For application in special designs, consult your local representative.

CASH VALVE™ TYPES CP/CP2 COMPRESSOR PILOT VALVES

Example: CP- Z A S S 010 Z F - 01 D Model CP- CPvalve CPV CPValve (vacuum service) CPV CPValve (CPV obve reverse acting CPV CPValve (CPV obve reverse acting CPV CPValve CPV CPV obve (CPV obve reverse acting CPV CPValve CPV CPV obve reverse acting CPV CPV obve (CPV obve) CPV CPV obve reverse acting CPV CPV obve reverse acting CPV CPV obve (CPV obve) CPV CPV obve (CPV obve (CPV obve) CPV CPV obve (CPV obve (CPV obve) CPV CPV obve (CPV obv	SELE	CTION GUIDE																	
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	Refe	r to table below																	

STANDARD SPRING RANGES (PSIG)

Spring Material	Model	1	2	3	4	5	6	7
Steel	CP	40-90	40-125	75-175				
	CP	15-65	40-100	75-175	100-250	200-400	200-600	300-600
CCT	CPR	100-150	75-175	100-250	140-200	200-450	300-600	
551	CP-2	0-30	40-80	80-150	50-275	100-275	200-400	300-600
	CPV (in/hg)	1-30						

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