

**PRODUCT BULLETIN**  
**Pressure Independent Valve, ePIV**

**PB-92**  
**January 20<sup>th</sup>, 2013**

**Sales Release: ePIV ½”- 2” Size Range Is Now Available For Purchase**

**Summary:** Effective January 20<sup>th</sup>, the Electronic Pressure Independent Valve (ePIV) range has been expanded to body sizes from ½” to 2” to accommodate flow settings from 1.65 GPM to 76.1 GPM.

The ePIV provides pressure independent flow by combining an ultrasonic flow meter, 2-way characterized control valve (CCV), non-spring return or electronic fail safe actuator, analog feedback, and optional field configuration tools.



The actuator has a powerful algorithm that modulates the CCV to maintain the controller flow set point. The ePIV is pressure independent over its entire throttling range capable of operating in differential pressures ranging from 1-50 psid. Refer to the [Technical Documentation](#) for further details.

The ultrasonic flow meter is temperature and glycol compensated. Each flow meter unit is wet calibrated to obtain published accuracy specifications.

The CCV technology provides superior light load flow control. Added to that, is its self-cleaning capability that prevents debris from clogging the valve. It offers zero leakage that eliminates “ghost energy” losses in the system.

True Flow readings are available as a feedback output using a standard analog 2-10vdc or 0-10vdc signals. This feedback output can also be field configured to indicate actuator position. The feedback output is then used by the Building Automation System (BAS) to perform advanced energy savings strategies.

The handheld ZTH US tool is used to read all the ePIV parameters including True Flow, which is used by test and balance professionals or commissioning agents. The ZTH US tool is also used to modify factory settings in the field including the maximum flow setting of the valve. See the [Tech Doc](#), page 15 for more details.

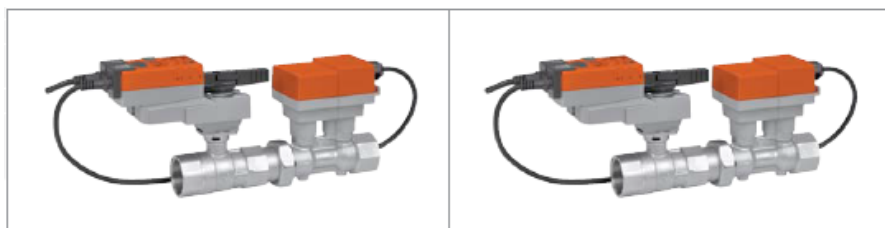
The [Installation instructions](#), [submittals](#) and [product brochure](#) are available online. On January 28<sup>th</sup>, the 2014 electronic Product Guide and Price List will be posted on [www.belimo.us](http://www.belimo.us).

The assemblies detailed on the following pages are available for [online ordering](#) and are integrated into [SelectPro™](#) sizing and selection tool.

Contact Customer Service or Technical Support for assistance or further information in Danbury 800-543-9038, Sparks 800-987-9042, Canada 866-805-7089 or Brazil + 55 11 3643-5656.

## P2 Series ePIV with Non-Spring Return Actuators

½" - 1¼", 2-way Valve with Stainless Steel Ball and Stem, NPT Female Ends

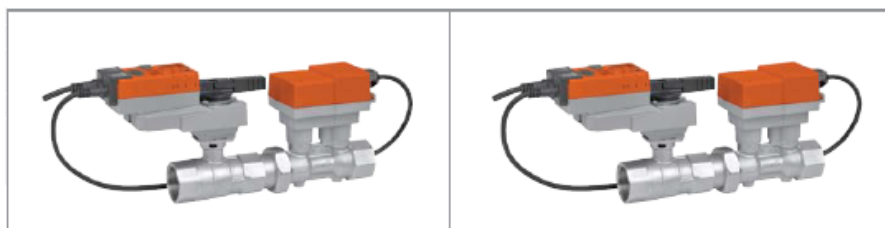


ACTUATOR PART #	LRX24-EP	NRX24-EP
Control type	Proportional	Proportional
Manual override	•	•
Running time	90 seconds	90 seconds
Noise level	<45 dB(A)	<45 dB(A)
<b>ELECTRICAL CONNECTION:</b>		
3 ft. cable, ½" conduit fitting	•	•

Model #	Flow Rate		Valve Nominal Size		Close-off psi		
	GPM	Liter/Min	Inches	DN mm			
P2050S-165**	1.65**	6.2	½	15	200		\$783
P2050S-020	2	7.6	½	15	200		\$783
P2050S-025	2.5	9.5	½	15	200		\$783
P2050S-030	3	11.4	½	15	200		\$783
P2050S-035	3.5	13.2	½	15	200		\$783
P2050S-040	4	15.1	½	15	200		\$783
P2050S-045	4.5	17.0	½	15	200		\$783
P2050S-050	5	18.9	½	15	200		\$783
P2050S-055	5.5	20.8	½	15	200		\$783
P2075S-060	6	22.7	¾	20	200		\$797
P2075S-065	6.5	24.6	¾	20	200		\$797
P2075S-070	7	26.5	¾	20	200		\$797
P2075S-075	7.5	28.4	¾	20	200		\$797
P2075S-080	8	30.3	¾	20	200		\$797
P2075S-085	8.5	32.2	¾	20	200		\$797
P2075S-090	9	34.1	¾	20	200		\$797
P2075S-095	9.5	36.0	¾	20	200		\$797
P2075S-103	10.3	39.0	¾	20	200		\$797
P2100S-111	11.1	42.0	1	25	200		\$846
P2100S-012	12	45.4	1	25	200		\$846
P2100S-131	13.1	49.6	1	25	200		\$846
P2100S-142	14.2	53.8	1	25	200		\$846
P2100S-151	15.1	57.2	1	25	200		\$846
P2100S-016	16	60.6	1	25	200		\$846
P2100S-169	16.9	64.0	1	25	200		\$846
P2100S-182	18.2	68.9	1	25	200		\$846
P2125S-018	18	68.1	1¼	32	200		\$1,519
P2125S-191	19.1	72.3	1¼	32	200		\$1,519
P2125S-020	20	75.7	1¼	32	200		\$1,519
P2125S-211	21.1	79.9	1¼	32	200		\$1,519
P2125S-222	22.2	84.0	1¼	32	200		\$1,519
P2125S-231	23.1	87.4	1¼	32	200		\$1,519
P2125S-242	24.2	91.6	1¼	32	200		\$1,519
P2125S-251	25.1	95.0	1¼	32	200		\$1,519
P2125S-262	26.2	99.2	1¼	32	200		\$1,519
P2125S-271	27.1	102.6	1¼	32	200		\$1,519
P2125S-285	28.5	107.9	1¼	32	200		\$1,519

## P2 Series ePIV with Non-Spring Return Actuators

1½" - 2", 2-way Valve with Stainless Steel Ball and Stem, NPT Female Ends



ACTUATOR PART #	NRX24-EP	ARX24-EP
Control type	Proportional	Proportional
Manual override	•	•
Running time	90 seconds	90 seconds
Noise level	<45 dB(A)	<45 dB(A)
<b>ELECTRICAL CONNECTION:</b>		
3 ft. cable, ½" conduit fitting	•	•

Model #	Flow Rate		Valve Nominal Size			Close-off psi		
	GPM	Liter/Min	Inches	DN mm				
P2150S-261	26.1	98.8	1½	40	200		\$1,630	
P2150S-273	27.3	103.3	1½	40	200		\$1,630	
P2150S-281	28.1	106.4	1½	40	200		\$1,630	
P2150S-293	29.3	110.9	1½	40	200		\$1,630	
P2150S-030	30	113.6	1½	40	200		\$1,630	
P2150S-313	31.3	118.5	1½	40	200		\$1,630	
P2150S-321	32.1	121.5	1½	40	200		\$1,630	
P2150S-033	33	124.9	1½	40	200		\$1,630	
P2150S-341	34.1	129.1	1½	40	200		\$1,630	
P2150S-352	35.2	133.2	1½	40	200		\$1,630	
P2150S-036	36	136.3	1½	40	200		\$1,630	
P2150S-372	37.2	140.8	1½	40	200		\$1,630	
P2150S-038	38	143.8	1½	40	200		\$1,630	
P2150S-396	39.6	149.9	1½	40	200		\$1,630	
P2200S-327	32.7	123.8	2	50	200			\$1,860
P2200S-342	34.2	129.5	2	50	200			\$1,860
P2200S-358	35.8	135.5	2	50	200			\$1,860
P2200S-381	38.1	144.2	2	50	200			\$1,860
P2200S-403	40.3	152.6	2	50	200			\$1,860
P2200S-441	44.1	166.9	2	50	200			\$1,860
P2200S-479	47.9	181.3	2	50	200			\$1,860
P2200S-525	52.5	198.7	2	50	200			\$1,860
P2200S-563	56.3	213.1	2	50	200			\$1,860
P2200S-601	60.1	227.5	2	50	200			\$1,860
P2200S-654	65.4	247.6	2	50	200			\$1,860
P2200S-070	70	265.0	2	50	200			\$1,860
P2200S-761	76.1	288.1	2	50	200			\$1,860

## P2 Series ePIV with Electronic Fail-Safe Actuators

½”- 1¼”, 2-way Valve with Stainless Steel Ball and Stem, NPT Female Ends



ACTUATOR PART #	AKRX24-EP
Control type	Proportional
Manual override	•
Running time	90 seconds
Noise level	<45 dB(A)
<b>ELECTRICAL CONNECTION:</b>	
3 ft. cable, ½” conduit fitting	•

Model #	Flow Rate		Valve Nominal Size		Close-off psi	
	GPM	Liter/Min	Inches	DN mm		
P2050S-165**	1.65**	6.2	½	15	200	\$1,090
P2050S-020	2	7.6	½	15	200	\$1,090
P2050S-025	2.5	9.5	½	15	200	\$1,090
P2050S-030	3	11.4	½	15	200	\$1,090
P2050S-035	3.5	13.2	½	15	200	\$1,090
P2050S-040	4	15.1	½	15	200	\$1,090
P2050S-045	4.5	17.0	½	15	200	\$1,090
P2050S-050	5	18.9	½	15	200	\$1,090
P2050S-055	5.5	20.8	½	15	200	\$1,090
P2075S-060	6	22.7	¾	20	200	\$1,100
P2075S-065	6.5	24.6	¾	20	200	\$1,100
P2075S-070	7	26.5	¾	20	200	\$1,100
P2075S-075	7.5	28.4	¾	20	200	\$1,100
P2075S-080	8	30.3	¾	20	200	\$1,100
P2075S-085	8.5	32.2	¾	20	200	\$1,100
P2075S-090	9	34.1	¾	20	200	\$1,100
P2075S-095	9.5	36.0	¾	20	200	\$1,100
P2075S-103	10.3	39.0	¾	20	200	\$1,100
P2100S-111	11.1	42.0	1	25	200	\$1,165
P2100S-012	12	45.4	1	25	200	\$1,165
P2100S-131	13.1	49.6	1	25	200	\$1,165
P2100S-142	14.2	53.8	1	25	200	\$1,165
P2100S-151	15.1	57.2	1	25	200	\$1,165
P2100S-016	16	60.6	1	25	200	\$1,165
P2100S-169	16.9	64.0	1	25	200	\$1,165
P2100S-182	18.2	68.9	1	25	200	\$1,165
P2125S-018	18	68.1	1¼	32	200	\$1,710
P2125S-191	19.1	72.3	1¼	32	200	\$1,710
P2125S-020	20	75.7	1¼	32	200	\$1,710
P2125S-211	21.1	79.9	1¼	32	200	\$1,710
P2125S-222	22.2	84.0	1¼	32	200	\$1,710
P2125S-231	23.1	87.4	1¼	32	200	\$1,710
P2125S-242	24.2	91.6	1¼	32	200	\$1,710
P2125S-251	25.1	95.0	1¼	32	200	\$1,710
P2125S-262	26.2	99.2	1¼	32	200	\$1,710
P2125S-271	27.1	102.6	1¼	32	200	\$1,710
P2125S-285	28.5	107.9	1¼	32	200	\$1,710

## P2 Series ePIV with Electronic Fail-Safe Actuators

1½" - 2", 2-way Valve with Stainless Steel Ball and Stem, NPT Female Ends



ACTUATOR PART #	AKRX24-EP
Control type	Proportional
Manual override	•
Running time	90 seconds
Noise level	<45 dB(A)
<b>ELECTRICAL CONNECTION:</b>	
3 ft. cable, ½" conduit fitting	•

Model #	Flow Rate		Valve Nominal Size		Close-off psi	
	GPM	Liter/Min	Inches	DN mm		
P2150S-261	26.1	98.8	1½	40	200	\$1,890
P2150S-273	27.3	103.3	1½	40	200	\$1,890
P2150S-281	28.1	106.4	1½	40	200	\$1,890
P2150S-293	29.3	110.9	1½	40	200	\$1,890
P2150S-030	30	113.6	1½	40	200	\$1,890
P2150S-313	31.3	118.5	1½	40	200	\$1,890
P2150S-321	32.1	121.5	1½	40	200	\$1,890
P2150S-033	33	124.9	1½	40	200	\$1,890
P2150S-341	34.1	129.1	1½	40	200	\$1,890
P2150S-352	35.2	133.2	1½	40	200	\$1,890
P2150S-036	36	136.3	1½	40	200	\$1,890
P2150S-372	37.2	140.8	1½	40	200	\$1,890
P2150S-038	38	143.8	1½	40	200	\$1,890
P2150S-396	39.6	149.9	1½	40	200	\$1,890
P2200S-327	32.7	123.8	2	50	200	\$2,050
P2200S-342	34.2	129.5	2	50	200	\$2,050
P2200S-358	35.8	135.5	2	50	200	\$2,050
P2200S-381	38.1	144.2	2	50	200	\$2,050
P2200S-403	40.3	152.6	2	50	200	\$2,050
P2200S-441	44.1	166.9	2	50	200	\$2,050
P2200S-479	47.9	181.3	2	50	200	\$2,050
P2200S-525	52.5	198.7	2	50	200	\$2,050
P2200S-563	56.3	213.1	2	50	200	\$2,050
P2200S-601	60.1	227.5	2	50	200	\$2,050
P2200S-654	65.4	247.6	2	50	200	\$2,050
P2200S-070	70	265.0	2	50	200	\$2,050
P2200S-761	76.1	288.1	2	50	200	\$2,050