



PN9000 Series Pneumatic Actuators for SPIRA-TROL K and L Series Control Valves

Description

The PN9000 series actuators are a compact range of linear actuators that are available in 3 diaphragm sizes for matching the requirements of valves at various differential pressures.

Each actuator is fitted with a mechanical travel indicator and incorporates a fully-rolling diaphragm, which provides good linearity over the operating stroke.

Available types

PN	= Standard	Suffix E	= Spring-extend
PNP	= Electroless nickel plated		
PNS	= Stainless steel	Suffix R	= Spring-retract

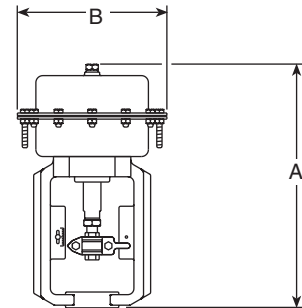
Optional extra

Manual handwheel	Suffix H
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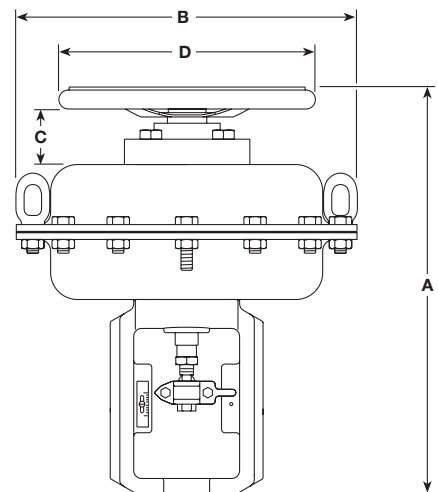
Important note: Throughout this document, reference has been made to the PN actuator. With exception of body material all actuators are identical.

Technical data

Temperature range	-4°F to +230°F (- 20°C to +110°C)	
Maximum operating inlet pressure	PN9100	87 psig (6 barg)
	PN9200	87 psig (6 barg)
	PN9300	58 psig (4 barg)
Air supply connection	1/4" NPT	
Actuator travel	PN9100	3/4" (20 mm)
	PN9200	3/4" (20 mm)
	PN9300	1-3/16" (30 mm)



PN9100

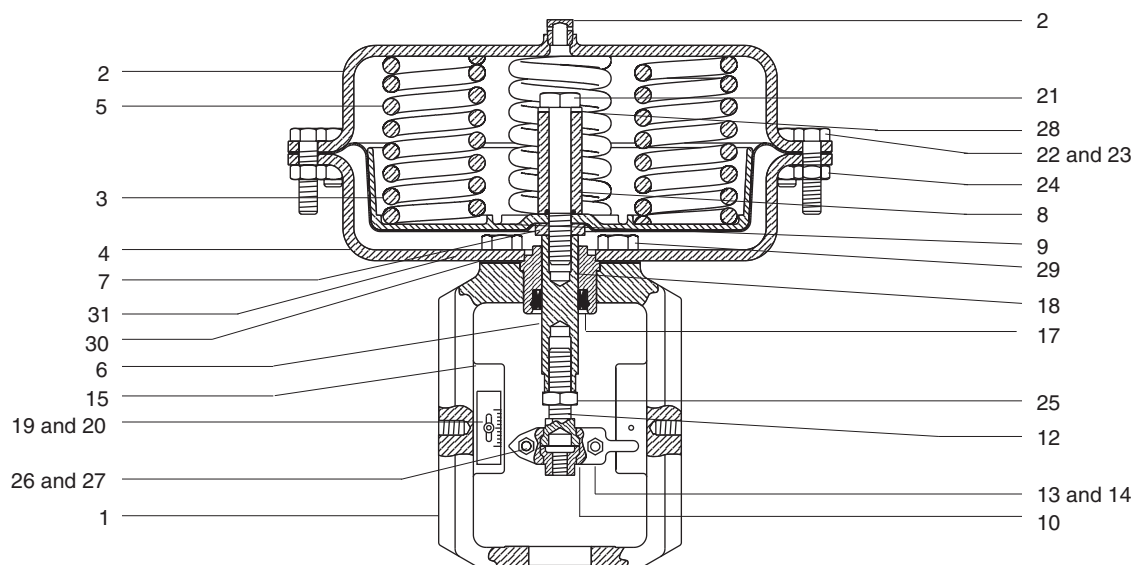


PN9200EH

Dimensions / weights in inches and pounds (mm and kg)

Actuator range	A	B	C	D	Weight	
					Actuator	With handwheel
PN9100E and variants	10.8 (275)	6.7 (170)	2.2 (55)	8.9 (225)	13.2 (6)	+12.9 (+ 5.86)
PN9100R and variants	10.8 (275)	6.7 (170)	5.5 (140)	8.9 (225)	13.2 (6)	+5.5 (+ 2.5)
PN9200E and variants	11.8 (300)	11.8 (300)	2.2 (55)	8.9 (225)	37.2 (17)	+15.8 (+ 7.2)
PN9200R and variants	11.8 (300)	11.8 (300)	5.5 (140)	8.9 (225)	37.2 (17)	+8.3 (+ 3.77)
PN9320E and variants	12.8 (325)	15.4 (390)	2.6 (65)	13.8 (350)	59.4 (27)	+15.8 (+ 7.2)
PN9320R and variants	12.8 (325)	15.4 (390)	5.9 (150)	13.8 (350)	59.4 (27)	+8.3 (+ 3.77)
PN9330E and variants	13.2 (335)	15.4 (390)	2.6 (65)	13.8 (350)	59.4 (27)	+15.8 (+ 7.2)
PN9330R and variants	13.2 (335)	15.4 (390)	5.9 (150)	13.8 (350)	59.4 (27)	+8.3 (+ 3.77)

PN9000 Series Pneumatic Actuators for SPIRA-TROL K and L Series Control Valves



Materials

No.	Part	Material
1	Yoke	SG iron
2	Upper diaphragm housing	Carbon steel
3	Diaphragm plate	Aluminium
4	Diaphragm	Reinforced NBR
5	Spring	Spring steel
6	Spindle	Stainless steel
7	Washer	Carbon steel (plated)
8	Spacer	Carbon steel (plated)
9	'O' ring	Viton
10	Connector	Carbon steel (plated)
11	Adaptor	Carbon steel (plated)
12	Collar	Carbon steel (plated)
13	Clamp front	Stainless steel
14	Clamp rear	Stainless steel
15	Scale	Stainless steel
16	Vent plug	Brass
17	Bearing	PBT
18	Seal	Polyurethane
19	Slotted pan head screw	Carbon steel (plated)
20	Nyloc nut	Carbon steel (plated)
21	Bolt	Carbon steel
22	Hex. head screw	Carbon steel
23	Hex. head screw	Carbon steel
24	Nut	Carbon steel
25	Lock-nut	Carbon steel (plated)
26	Hex. head screw	Carbon steel
27	Nut	Carbon steel
28	Washer	Carbon steel (plated)
29	Screw	Carbon steel
30	Gasket	Reinforced graphite
31	Lower diaphragm housing	Carbon steel

Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only.
In the interests of development and improvement of the product, we reserve the right to change the specification.

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How to use the sizing data:

The following tables supply guidance as to the sizing of the PN9000 when it is used on the SPIRA-TROL K and L series valves.

Three conditions are illustrated in tabular form:

Modulating - For pure control applications providing control across the full valve operating range but not guaranteeing shut-off to a greater level than the minimum flowrate based on the valve 50:1 turndown.

Class IV shut-off - Providing shut-off of the valve to the requirements of ANSI/FCI 70-2 class IV.

Class VI shut-off - Providing shut-off of the valve to the requirements of ANSI/FCI 70-2 class VI.

To select a suitable actuator:

- Identify the column containing the valve and gland material selected.
- Identify the maximum operating pressure condition, including any transient pressures likely to occur, within the selected column.
- Read back to the left hand side of the table to identify the suitable actuator for the application.

For conditions outside of those illustrated please contact Spirax Sarco.

Maximum differential pressures for modulating duties only - PN9000E

KEA and LEA with PTFE or Graphite stem seal (H)

Actuator	Spring Range	Maximum Differential Pressure (psi)																	
		1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"	
		PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph
PN9120	3 - 15	66		52		35		27		12		8							
PN9120	6 - 18	205		162		108		84		36		26							
PN9126	15 - 30	620	404	490	319	328	214	254	165	110	72	78	51						
PN9123	30 - 60	740	740	740	740	694	580	538	449	233	194	166	139						
PN9220	3 - 15	418	202	330	160	221	107	171	83	74	36	53	26						
PN9220	6 - 18	740	692	718	547	481	366	372	284	161	123	115	88						
PN9226	15 - 30	740	740	740	740	740	740	740	740	422	384	301	274						
PN9223	30 - 60	740	740	740	740	740	740	740	740	740	740	611	583						
PN9320	3 - 15	740	678	707	536	473	359	366	278	159	120	113	86						
PN9320	6 - 18	740	740	740	740	740	740	740	673	330	292	235	208						
PN9330	6 - 18													130	104	83	66	52	41
PN9336	15 - 30													336	310	215	198	134	124
PN9337	36 - 51													740	740	545	528	340	329

KEA and LEA with Bellows and PTFE or Graphite stem seal (H)

Actuator	Spring Range	Maximum Differential Pressure (psi)																	
		1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"	
		PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph
PN9123	30 - 60	231	14	182	11	122	8	95	6	41	3	29	2						
PN9226	15 - 30	740	740	740	740	687	572	532	443	230	192	164	137						
PN9223	30 - 60	740	740	740	740	740	740	740	740	665	626	474	447						
PN9320	6 - 18	740	563	615	444	412	298	319	230	138	100	98	71						
PN9330	6 - 18													22		14		9	
PN9336	15 - 30													228	202	146	129	91	81
PN9337	36 - 51													740	717	476	459	297	286

PN9000 Series Pneumatic Actuators for SPIRA-TROL K and L Series Control Valves

Maximum differential pressures for class IV shut-off - PN9000E

KEA and LEA with PTFE or Graphite stem seal (H)

Actuator	Spring Range	Maximum Differential Pressures (psi)																	
		1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"	
		PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph
PN9120	3 - 15																		
PN9120	6 - 18																		
PN9126	15 - 30	403	186	297	126	170	55	138	49	34		14							
PN9123	30 - 60	740	740	740	673	536	422	422	333	156	118	101	74						
PN9220	3 - 15	201		137		63		55											
PN9220	6 - 18	691	475	525	354	322	208	256	168	85	46	50	23						
PN9226	15 - 30	740	740	740	740	740	740	740	740	346	307	236	209						
PN9223	30 - 60	740	740	740	740	740	740	740	740	740	740	546	519						
PN9320	3 - 15	677	460	513	342	315	200	250	162	82	44	49	21						
PN9320	6 - 18	740	740	740	740	740	712	646	557	254	215	171	143						
PN9330	6 - 18													81	55	44	28	21	11
PN9336	15 - 30													288	261	176	160	103	93
PN9337	36 - 51													740	740	506	489	309	299

KEA and LEA with bellows and PTFE or Graphite stem seal (H)

Actuator	Spring Range	Maximum Differential Pressure (psi)																	
		1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"	
		PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph
PN9226	15 - 30	740	740	740	661	528	414	393	304	139	100	87	59						
PN9223	30 - 60	740	740	740	740	740	740	740	740	573	535	397	369						
PN9320	3 - 15																		
PN9320	6 - 18	561	345	422	251	254	139	180	91	47	8	21							
PN9336	15 - 30													170	144	100	83	54	44
PN9337	36 - 51													686	659	430	413	260	250

Maximum differential pressures for class VI shut-off - PN9000E (PTFE (G) seat seal only)

KEA and LEA with PTFE or Graphite stem seal (H)

Actuator	Spring Range	Maximum Differential Pressure (psi)																	
		1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"	
		PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph
PN9120	3 - 15	61		48		31		24		9		6							
PN9120	6 - 18	199		157		104		80		34		24							
PN9126	15 - 30	615	398	485	314	324	210	251	162	108	69	76	49						
PN9123	30 - 60	740	740	740	740	690	576	534	446	230	192	164	137						
PN9220	3 - 15	413	196	326	155	217	103	168	79	72	34	51	24						
PN9220	6 - 18	740	687	713	542	477	362	369	280	159	120	113	86						
PN9226	15 - 30	740	740	740	740	740	740	740	740	420	381	299	272						
PN9223	30 - 60	740	740	740	740	740	740	740	740	740	740	609	582						
PN9320	3 - 15	740	672	702	531	469	355	363	274	156	118	111	84						
PN9320	6 - 18	740	740	740	740	740	740	740	670	328	289	233	206						
PN9330	6 - 18													128	102	82	65	51	40
PN9336	15 - 30													334	308	214	197	133	123
PN9337	36 - 51													740	740	544	527	339	328

KEA and LEA with bellows and PTFE or Graphite stem seal (H)

Actuator designation	Spring Range	Maximum Differential Pressure (psi)																	
		1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"	
		PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph
PN9123	30 - 60	225	9	178	7	118	4	91	2	39	0	27							
PN9226	15 - 30	740	740	740	740	683	568	528	440	228	189	162	135						
PN9223	30 - 60	740	740	740	740	740	740	740	740	663	624	472	445						
PN9320	6 - 18	740	557	611	440	408	294	316	227	136	97	97	69						
PN9330	6 - 18													21		13		8	
PN9336	15 - 30													227	201	145	128	90	80
PN9337	36 - 51													740	716	475	458	296	286

PN9000 Series Pneumatic Actuators for SPIRA-TROL K and L Series Control Valves

Maximum differential pressures for modulating duties only - PN9000R

KEA and LEA with PTFE or Graphite stem seal (H)

Actuator	Spring Range	Air Pressure	Maximum Differential Pressure (psi)																	
			1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"	
			PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph
PN9120	3 - 15	20	190		151		101		78		34		24							
		30	668	452	528	357	353	239	274	185	118	80	84	57						
		40	740	740	740	734	606	491	469	381	203	165	145	117						
		50	740	740	740	740	740	740	665	576	288	249	205	178						
		60	740	740	740	740	740	740	740	740	372	334	266	238						
		70	740	740	740	740	740	740	740	740	457	419	326	299						
		90	740	740	740	740	740	740	740	740	626	588	447	419						
PN9220	3 - 15	20	740	642	678	507	454	339	351	263	152	114	108	81						
		30	740	740	740	740	740	740	740	740	452	414	322	295						
		40	740	740	740	740	740	740	740	740	713	536	509							
		50	740	740	740	740	740	740	740	740	740	740	740	722						
		60	740	740	740	740	740	740	740	740	740	740	740	740						
		70	740	740	740	740	740	740	740	740	740	740	740	740						
		90	740	740	740	740	740	740	740	740	740	740	740	740						
PN9320	3 - 15	20	740	740	740	740	740	740	721	633	312	274	223	195						
		30	740	740	740	740	740	740	740	740	740	740	644	616						
		40	740	740	740	740	740	740	740	740	740	740	740	740						
		50	740	740	740	740	740	740	740	740	740	740	740	740						
		60	740	740	740	740	740	740	740	740	740	740	740	740						
PN9330	6 - 18	20													54	28	35	18	22	11
		30													291	265	186	169	116	106
		40													528	502	338	321	211	200
		50													740	739	489	473	305	295
		60													740	740	641	624	400	389

KEA and LEA with Bellows and PTFE or Graphite stem seal (H)

Actuator	Spring Range	Air Pressure	Maximum Differential Pressure (psi)																	
			1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"	
			PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph
PN9120	3 - 15	20																		
		30																		
		40	64		50		34		26		11		8							
		50	541	325	428	257	286	172	222	133	96	58	68	41						
		60	740	740	740	634	539	424	417	329	181	142	129	101						
		70	740	740	740	740	740	677	613	524	265	227	189	162						
		90	740	740	740	740	740	740	740	740	435	396	310	283						
PN9220	3 - 15	20																		
		30	740	740	740	740	740	662	601	512	260	222	185	158						
		40	740	740	740	740	740	740	740	740	560	522	399	372						
		50	740	740	740	740	740	740	740	740	740	740	613	586						
		60	740	740	740	740	740	740	740	740	740	740	740	740						
		70	740	740	740	740	740	740	740	740	740	740	740	740						
		90	740	740	740	740	740	740	740	740	740	740	740	740						
PN9320	3 - 15	20	679	463	536	365	359	245	278	189	120	82	86	58						
		30	740	740	740	740	740	740	740	740	711	673	507	480						
		40	740	740	740	740	740	740	740	740	740	740	740	740						
		50	740	740	740	740	740	740	740	740	740	740	740	740						
		60	740	740	740	740	740	740	740	740	740	740	740	740						
PN9330	6 - 18	20																		
		30													183	157	117	101	73	63
		40													420	394	269	252	168	157
		50													657	631	421	404	262	252
		60													740	740	572	555	357	346

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PN9000 Series Pneumatic Actuators for SPIRA-TROL K and L Series Control Valves

Maximum differential pressures for Class IV shut off - PN9000R

KEA and LEA with PTFE or Graphite stem seal (H)

Actuator	Spring Range	Air Pressure	Maximum Differential Pressure (psi)																	
			1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"	
			PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph
PN9120	3 - 15	20																		
		30	450	234	334	163	195	81	158	69	42	4	20							
		40	740	712	712	541	448	333	353	265	127	88	80	53						
		50	740	740	740	740	700	586	549	460	211	173	141	113						
		60	740	740	740	740	740	740	740	656	296	258	201	174						
		70	740	740	740	740	740	740	740	740	381	342	261	234						
		90	740	740	740	740	740	740	740	740	550	512	382	355						
PN9220	3 - 15	20	640	424	485	314	296	181	235	147	76	37	44	17						
		30	740	740	740	740	740	740	740	740	376	337	258	230						
		40	740	740	740	740	740	740	740	740	675	637	472	444						
		50	740	740	740	740	740	740	740	740	740	740	685	658						
		60	740	740	740	740	740	740	740	740	740	740	740	740						
		70	740	740	740	740	740	740	740	740	740	740	740	740						
		90	740	740	740	740	740	740	740	740	740	740	740	740						
PN9320	3 - 15	20	740	740	740	740	740	659	605	517	236	197	158	131						
		30	740	740	740	740	740	740	740	740	740	740	579	552						
		40	740	740	740	740	740	740	740	740	740	740	740	740						
		50	740	740	740	740	740	740	740	740	740	740	740	740						
		60	740	740	740	740	740	740	740	740	740	740	740	740						
PN9330	6 - 18	20													6					
		30													243	216	147	131	86	75
		40													480	453	299	282	180	170
		50													716	690	451	434	275	264
		60													740	740	602	586	369	359

KEA and LEA with PTFE or Graphite stem seal (H)

Actuator	Spring Range	Air Pressure	Maximum Differential Pressure (psi)																	
			1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"	
			PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph
PN9120	3 - 15	20																		
		30																		
		40																		
		50	324	107	234	63	128	14	106	17	20		4							
		60	740	585	611	441	381	266	301	213	104	66	64	37						
		70	740	740	740	740	633	519	497	408	189	151	125	97						
		90	740	740	740	740	740	740	740	740	358	320	245	218						
PN9220	3 - 15	20																		
		30	740	740	740	740	618	503	485	396	184	145	121	94						
		40	740	740	740	740	740	740	740	740	484	445	335	307						
		50	740	740	740	740	740	740	740	740	740	740	549	521						
		60	740	740	740	740	740	740	740	740	740	740	740	735						
		70	740	740	740	740	740	740	740	740	740	740	740	740	740					
		90	740	740	740	740	740	740	740	740	740	740	740	740	740					
PN9320	3 - 15	20	461	245	343	172	201	86	162	73	44	6	21							
		30	740	740	740	740	740	740	740	740	635	596	443	415						
		40	740	740	740	740	740	740	740	740	740	740	740	740						
		50	740	740	740	740	740	740	740	740	740	740	740	740						
		60	740	740	740	740	740	740	740	740	740	740	740	740						
		70	740	740	740	740	740	740	740	740	740	740	740	740						
		90	740	740	740	740	740	740	740	740	740	740	740	740						
PN9330	6 - 18	20																		
		30													135	109	79	62	43	32
		40													372	346	230	213	137	127
		50													609	583	382	365	232	221
		60													740	740	534	517	326	316

PN9000 Series Pneumatic Actuators for SPIRA-TROL K and L Series Control Valves

Maximum differential pressures for Class VI shut off - PN9000R
(PTFE) (G) seat seal only)

KEA and LEA with PTFE or Graphite stem seal (H)

Actuator	Spring Range	Air Pressure	Maximum Differential Pressure (psi)																	
			1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"	
			PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph
PN9120	3 - 15	20	185		146		97		25		31		22							
		30	663	446	523	352	349	235	270	181	116	78	83	55						
		40	740	740	740	729	602	487	466	377	201	162	143	116						
		50	740	740	740	740	740	740	861	573	285	247	203	176						
		60	740	740	740	740	740	740	740	740	370	332	264	236						
		70	740	740	740	740	740	740	740	740	455	416	324	297						
PN9220	3 - 15	80	740	740	740	740	740	740	740	740	624	586	445	417						
		20	740	636	673	502	450	335	348	259	150	111	107	79						
		30	740	740	740	740	740	740	740	740	450	411	320	293						
		40	740	740	740	740	740	740	740	740	740	711	534	507						
		50	740	740	740	740	740	740	740	740	740	740	740	721						
		60	740	740	740	740	740	740	740	740	740	740	740	740						
PN9320	3 - 15	70	740	740	740	740	740	740	740	740	740	740	740	740						
		90	740	740	740	740	740	740	740	740	740	740	740	740						
		20	740	740	740	740	740	740	718	629	310	271	221	193						
		30	740	740	740	740	740	740	740	740	740	740	740	642	615					
		40	740	740	740	740	740	740	740	740	740	740	740	740						
		50	740	740	740	740	740	740	740	740	740	740	740	740						
PN9330	6 - 18	60	740	740	740	740	740	740	740	740	740	740	740							
		20													52	26	33	17	21	10
		30													289	263	185	168	115	105
		40													526	500	337	320	210	199
		50													740	737	488	472	304	294
		60													740	740	640	623	399	388

KEA and LEA with Bellows and PTFE stem seal or Graphite stem seal (H)

Actuator	Spring Range	Air Pressure	Maximum Differential Pressure (psi)																	
			1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"	
			PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph	PTFE	Graph
PN9120	3 - 15	20																		
		30																		
		40	58		45		30		23		9		6							
		50	536	319	423	252	282	168	218	130	94	55	66	39						
		60	740	740	740	629	535	420	414	325	178	140	127	99						
		70	740	740	740	740	740	673	609	521	263	225	187	160						
		90	740	740	740	740	740	740	740	740	432	394	308	281						
PN9220	3 - 15	20																		
		30	740	740	740	740	740	658	597	509	258	219	184	156						
		40	740	740	740	740	740	740	740	740	558	519	397	370						
		50	740	740	740	740	740	740	740	740	740	740	611	584						
		60	740	740	740	740	740	740	740	740	740	740	740	740						
		70	740	740	740	740	740	740	740	740	740	740	740	740	740					
		90	740	740	740	740	740	740	740	740	740	740	740	740	740					
PN9320	3 - 15	20	673	457	532	361	355	241	275	186	118	80	84	57						
		30	740	740	740	740	740	740	740	740	709	670	505	478						
		40	740	740	740	740	740	740	740	740	740	740	740	740						
		50	740	740	740	740	740	740	740	740	740	740	740	740	740					
		60	740	740	740	740	740	740	740	740	740	740	740	740	740					
		70																		
		90																		
PN9330	6 - 18	20													182	156	116	99	72	62
		30													419	393	268	251	167	156
		40													656	630	419	403	261	251
		50													740	740	571	554	356	345
		60																		
		70																		
		90																		

PN9000 Series Pneumatic Actuators for SPIRA-TROL K and L Series Control Valves

PN9000 series selection guide:

Type	PN = Polyester powder coated (standard)	PNP
	PNP = Electroless nickle plated	
	PNS = Stainless steel 316L	
Series	9 = 9000 series	9
Actuator size	1 = 16 in ² (105 cm ²)	3
	2 = 57 in ² (368 cm ²)	
	3 = 116 in ² (750 cm ²)	
Valve travel	2 = 3/4" (20 mm)	3
	3 = 1-3/16" (30 mm)	
Spring rating	0 = 3 to 15 psig (option for 6 to 18 psig) (0.2 to 1.0 barg (option for 0.4 to 1.2 barg))	7
	3 = 30 to 60 psig (2.0 to 4.0 barg)	
	6 = 15 to 30 psig (1.0 to 2.0 barg)	
	7 = 36 to 51 psig (2.5 to 3.5 barg)	
Spring action	E = Spring-extend	E
	R = Spring-retract	
Manual override	H = Handwheel (optional)	

How to order / selection example:

1 of Spirax Sarco PNP9337E pneumatic actuator.

Spare parts

The only spares available are clearly indicated below and are common for both spring-extend and spring-retract versions.

Available spares

Stem seal kit	17
Diaphragm kit	4
Travel indicator kit	15, 19, 20
Spring kit	5
Linkage kit	10, 13, 14, 26, 27

How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the actuator model.

Example: 1 of Stem seal kit for a PN9120 pneumatic actuator.

