



## PN1000 and PN2000 Pneumatic Actuators Closing Pressures for 1" to 4" 'C' Series Valves

### 'C' series valve

Valve size	1" DN25	1-1/2" DN40	2" DN50	2-1/4" DN65	3" DN80	4" DN100
Standard travel in inches and (mm)	3/4" (20)		1-3/16" (30)	1-1/2" (38)		2" (50)

### PN1000 and PN2000 series actuators Class IV and VI shut-off with:

### Maximum differential pressures (psi) - UNBALANCED valves controlled by positioner

PTFE chevron or graphite stem seal. For extended bonnets and bellows seal read 'PTFE' or 'graphite' depending on seal chosen.

Actuator	Spring range		Minimum air pressure psig		Positioner required	Maximum differential pressure (bar) for standard valve trim with either graphite or PTFE stem seal											
	Spring extend PN1000	Spring retract PN2000	Spring extend PN1000	Spring retract PN2000		PTFE	Graphite	PTFE	Graphite	PTFE	Graphite	PTFE	Graphite	PTFE	Graphite	PTFE	Graphite
PN_300	6-18	3-15	20	20	Yes	72	43	-	-	-	-	-	-	-	-	-	-
PN_400	6-18	3-15	20	20	Yes	188	159	72	58	43	29	-	-	-	-	-	-
PN_500	6-18	3-15	20	20	Yes	362	333	145	145	87	87	43	43	-	-	-	-
PN_600	6-18	3-15	20	20	Yes	-	-	246	232	159	145	87	87	58	58	-	-
PN_300	15-30	3-15	32	29	Yes	377	348	159	145	101	87	-	-	-	-	-	-
PN_400	15-30	3-15	32	29	Yes	652	623	290	275	188	174	116	101	72	72	-	-
PN_500	15-30	3-15	32	29	Yes	1073	1044	507	478	333	319	203	188	130	130	72	72
PN_600	15-30	3-15	32	29	Yes	-	-	739	725	478	478	290	290	203	203	116	116
PN_300	30-60	3-15	61	44	Yes	870	841	391	362	246	232	-	-	-	-	-	-
PN_400	30-60	3-15	61	44	Yes	1421	1377	667	652	435	420	261	261	188	174	-	-
PN_500	30-60	3-15	61	44	Yes	1493	1493	1073	1058	710	696	435	435	304	304	188	174
PN_600	30-60	3-15	61	44	Yes	-	-	1493	1493	1044	1029	652	638	449	449	275	275

### PN1000 and PN2000 series actuators Class IV shut-off with:

### Maximum differential pressures (psi) - BALANCED valves controlled by positioner

PTFE chevron or graphite stem seal. For extended bonnets and bellows seal read 'PTFE' or 'graphite' depending on seal chosen.

Actuator	Spring range		Minimum air pressure psig		Positioner required	Maximum differential pressure (bar) for standard valve trim with either graphite or PTFE stem seal											
	Spring extend PN1000	Spring retract PN2000	Spring extend PN1000	Spring retract PN2000		PTFE	Graphite	PTFE	Graphite	PTFE	Graphite	PTFE	Graphite	PTFE	Graphite	PTFE	Graphite
PN_300	6-18	3-15	20	20	Yes	261	-	-	-	-	-	-	-	-	-	-	-
PN_400	6-18	3-15	20	20	Yes	827	421	377	-	-	-	-	-	-	-	-	-
PN_500	6-18	3-15	20	20	Yes	1494	1320	1015	580	711	392	522	-	319	-	-	-
PN_600	6-18	3-15	20	20	Yes	1494	1494	1494	1421	1334	1015	1117	769	812	479	595	-
PN_300	15-30	3-15	32	29	Yes	1494	1407	1073	725	769	450	-	-	-	-	-	-
PN_400	15-30	3-15	32	29	Yes	1494	1494	1494	1494	1494	1276	1378	1015	1030	682	-	-
PN_500	15-30	3-15	32	29	Yes	-	-	1494	1494	1494	1494	1494	1494	1494	1494	1494	1421
PN_600	15-30	3-15	32	29	Yes	-	-	-	-	-	-	-	-	1494	1494	1494	1494
PN_300	30-60	3-15	61	44	Yes	1494	1494	1494	1494	1494	1494	-	-	-	-	-	-
PN_400	30-60	3-15	61	44	Yes	-	-	-	-	1494	1494	1494	1494	1494	1494	-	-
PN_500	30-60	3-15	61	44	Yes	-	-	-	-	-	-	-	-	-	-	1494	1494
PN_600	30-60	3-15	61	44	Yes	-	-	-	-	-	-	-	-	-	-	-	-

Note: For reduced trims use the equivalent trim diameter. See overleaf for Class V shut-off.

# PN1000 and PN2000 Pneumatic Actuators

## Closing Pressures for 1" to 4" 'C' Series Valves

### 'C' series valve

Valve size	1" DN25	1-1/2" DN40	2" DN50	2-1/4" DN65	3" DN80	4" DN100
Standard travel in inches and (mm)	3/4" (20)		1-3/16" (30)	1-1/2" (38)		2" (50)

### PN1000 and PN2000 series actuators Class V shut-off with:

PTFE chevron or graphite stem seal. For extended bonnets and bellows seal read 'PTFE' or 'graphite' depending on seal chosen.

### Maximum differential pressures (psi) - UNBALANCED valves controlled by positioner

Actuator	Spring range		Minimum air pressure psig		Positioner required	Maximum differential pressure (bar) for standard valve trim with either graphite or PTFE stem seal											
	Spring extend PN1000	Spring retract PN2000	Spring extend PN1000	Spring retract PN2000		PTFE	Graphite	PTFE	Graphite	PTFE	Graphite	PTFE	Graphite	PTFE	Graphite		
	PN_300	6-18	3-15	20		20	Yes	-	-	-	-	-	-	-	-	-	-
PN_400	6-18	3-15	20	20	Yes	-	-	-	-	-	-	-	-	-	-	-	-
PN_500	6-18	3-15	20	20	Yes	-	-	-	-	-	-	-	-	-	-	-	-
PN_600	6-18	3-15	20	20	Yes	-	-	-	-	-	-	-	-	-	-	-	-
PN_300	15-30	3-15	32	29	Yes	305	261	58	29	-	-	-	-	-	-	-	-
PN_400	15-30	3-15	32	29	Yes	725	696	261	247	131	116	44	29	0	0	-	-
PN_500	15-30	3-15	32	29	Yes	-	-	493	479	290	276	145	131	73	73	-	-
PN_600	15-30	3-15	32	29	Yes	-	-	1160	1146	725	725	421	406	276	261	131	131
PN_300	30-60	3-15	61	44	Yes	1059	1030	421	406	232	232	-	-	-	-	-	-
PN_400	30-60	3-15	61	44	Yes	1494	1494	827	812	508	493	276	276	174	160	-	-
PN_500	30-60	3-15	61	44	Yes	-	-	1320	1305	841	827	493	479	319	319	174	160
PN_600	30-60	3-15	61	44	Yes	-	-	-	-	1494	1494	1044	1030	711	696	406	406