



## PN1000 and PN2000 Pneumatic Actuators Closing Pressures for 5" to 8" 'C' Series Valves

### 'C' series valve

Valve size	5" DN125	6" DN150	8" DN200
Standard travel in inches and (mm)	2-1/2" (65)		3" (75)

### Maximum differential pressures (psi) - UNBALANCED valves controlled by positioner Class IV and VI shut-off with 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
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_700	6-18	3-15	20	20	Yes	58	58	44	29	-	-
PN_300	15-30	3-15	32	29	Yes	-	-	-	-	-	-
PN_400	15-30	3-15	32	29	Yes	-	-	-	-	-	-
PN_500	15-30	3-15	32	29	Yes	-	-	-	-	-	-
PN_600	15-30	3-15	32	29	Yes	87	87	58	58	29	29
PN_700	15-30	3-15	32	29	Yes	174	174	116	116	73	58
PN_300	30-60	3-15	61	44	Yes	-	-	-	-	-	-
PN_400	30-60	3-15	61	44	Yes	-	-	-	-	-	-
PN_500	30-60	3-15	61	44	Yes	-	-	-	-	-	-
PN_600	30-60	3-15	61	44	Yes	203	203	145	131	73	73
PN_700	30-60	3-15	61	44	Yes	392	377	261	261	145	145

### Maximum differential pressures (psi) - BALANCED valves controlled by positioner Class IV and VI shut-off with 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
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	290	-	-	-	-	-
PN_700	6-18	3-15	20	20	Yes	1204	856	841	522	406	131
PN_300	15-30	3-15	32	29	Yes	-	-	-	-	-	-
PN_400	15-30	3-15	32	29	Yes	-	-	-	-	-	-
PN_500	15-30	3-15	32	29	Yes	-	-	-	-	-	-
PN_600	15-30	3-15	32	29	Yes	1494	1494	1494	1175	856	580
PN_700	15-30	3-15	32	29	Yes	1494	1494	1494	1494	1494	1494
PN_300	30-60	3-15	61	44	Yes	-	-	-	-	-	-
PN_400	30-60	3-15	61	44	Yes	-	-	-	-	-	-
PN_500	30-60	3-15	61	44	Yes	1494	1494	1494	1494	1494	1233
PN_600	30-60	3-15	61	44	Yes	-	-	-	-	-	1494
PN_700	30-60	3-15	61	44	Yes	-	-	-	-	-	-

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

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## 'C' series valve

Valve size	5" DN125	6" DN150	8" DN200
Standard travel in inches and (mm)	2-1/2" (65)		3" (75)

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

### 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.

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
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_700	6-18	3-15	20	20	Yes	-	-	-	-	-	-
PN_300	15-30	3-15	32	29	Yes	-	-	-	-	-	-
PN_400	15-30	3-15	32	29	Yes	-	-	-	-	-	-
PN_500	15-30	3-15	32	29	Yes	-	-	-	-	-	-
PN_600	15-30	3-15	32	29	Yes	-	-	-	-	-	-
PN_700	15-30	3-15	32	29	Yes	87	87	44	44	-	-
PN_300	30-60	3-15	61	44	Yes	-	-	-	-	-	-
PN_400	30-60	3-15	61	44	Yes	-	-	-	-	-	-
PN_500	30-60	3-15	61	44	Yes	-	-	-	-	-	-
PN_600	30-60	3-15	61	44	Yes	-	-	-	-	-	-
PN_700	30-60	3-15	61	44	Yes	290	290	189	189	-	-