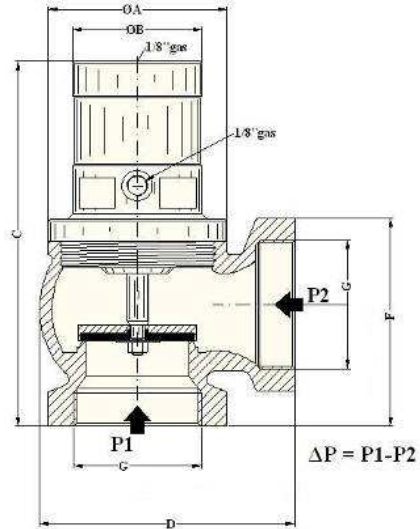


I INCA

INTERCEPTING VALVE FOR HIGH FLOWRATE
Max fluid temperature



+100°C



Sizes	1"1/4 - 4" (PN16)
Pipe threads	F/F gas ISO228
Angle	not
Right-angled	yes
Normally closed (NC)	yes cod. 81....On request
Normally open (NO)	yes cod. 82....On request
Double acting (DA)	yes cod. 83....
Ambient temperature	0° / +60°C
Pilot pressure	Min 5 bar - Max 8 bar
Max negative presssure	-1.0 bar
Valve body	Bronze
Spacer	Aluminium
Rotable cylinder	not
Seal holder	Brass 1"1/4-2", Anodized aluminium 3"-4"
Piston	Aluminium
Cylinder	Anodized aluminium
Piston rod	Stainless steel aisi 304
Rod wiper	Ptfe
Rod guide	Special technopolymer self lubricated
Internal o-rings	Fkm
Shutter seal	Fkm 1"1/4-2", Nbr 3"-4" (on request Ptfe, Nbr, Epdm)

On request:

Stem for visual indication	red visual indicator
Atex certification	yes
Switch-box	two reed sensors



INCA-NC. Closing against flow

Codice Code	Filett. [gas] Gas pipe thread	DN	A	B	C	D	E	F	H	ΔP Max [bar]	V.aria(1) [NI/ciclo] V.air(1) NI/stroke	kv(2) [m3/h]
81114	1"1/4	32	58	60	153.5	89.5	56	74.8	44	4.8	0.1114	21.4
81200	2"	50	85	60	172.5	119.8	73.3	98.2	60	2.1	0.1185	50.6
81300/N	3"	80	115	70	237.5	163.5	91	133	73	0.5	0.4570	153.5

INCA-NC-Z. Closing with flow

(water hammer risk with not-compressible fluids)

Codice Code	Filett. [gas] Gas pipe thread	DN	ΔP [bar]						V.aria(1) [NI/ciclo] V.air(1) NI/stroke	kv(2) [m3/h]
			1.0	2.0	5.0	8.0	13.0	16.0		
			Press. Pilota Minima [bar] / Min Pilot Pressure [bar]							
81114Z	1"1/4	32	1.7	2.2	4.1	5.1	7.6	9.1	0.1150	28.2
81200Z	2"	50	2.1	3.0	6.6	8.5	-	-	0.1186	50.6
81300NZ	3"	80	2.2	3.7	9.9	-	-	-	0.4570	153.5
81400Z	4"	100	3.1	5.6	-	-	-	-	0.4913	257.1

(1) → Il consumo d'aria degli attuatori viene calcolato assumendo di espandere adiabaticamente l'aria contenuta fino alla $P_{atm} = 1,01325$ [bar], a partire da una pressione pilota di 5,5 [bar] e una temperatura di ingresso di 20°C
The air-consumption (V.AIR) is calculated assuming that the air inside the cylinder expands adiabatically from a pressure of 5,5 [bar] to atmospheric pressure ($P_{atm} = 1,01325$ [bar], at the temperature of 20°C)

(2) → Il coefficiente di portata K_v rappresenta la portata in volume di acqua che passa attraverso la valvola alle condizioni seguenti:
 $\Delta P = 1$ [bar]; $T = 5+40$ [°C]; densità = 1000 [kg/m³]
The flow factor K_v is the flow rate of water in cubic metres per hour at a pressure drop of one bar across the valve, with temperature ranging = 5-30°C and density = 1000 kg/m³.

INCA-DA. Closing against flow

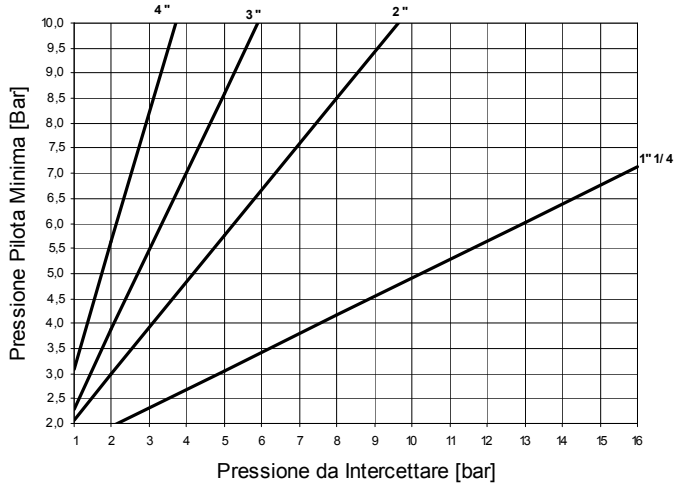
Codice Code	Filett. [gas] Gas pipe thread	DN	Pressione Pilota [bar] / Pilot Pressure [bar]						V.aria(1) [NI/ciclo] V.air(1) NI/stroke	k _v ⁽²⁾ [m ³ /h]
			4.0	5.0	5.5	6.0	7.0	8.0		
83114	1"1/4	32	6.9	8.9	9.8	10.8	12.7	14.6	0.2356	28.2
83200	2"	50	3.9	5.0	5.5	6.1	7.2	8.2	0.2356	50.2
83300N	3"	80	2.4	3.1	3.4	3.8	4.4	5.1	0.9060	152.7
83400	4"	100	1.5	1.9	2.1	2.3	2.7	3.1	0.9903	256.7

INCA-DA. Closing with flow

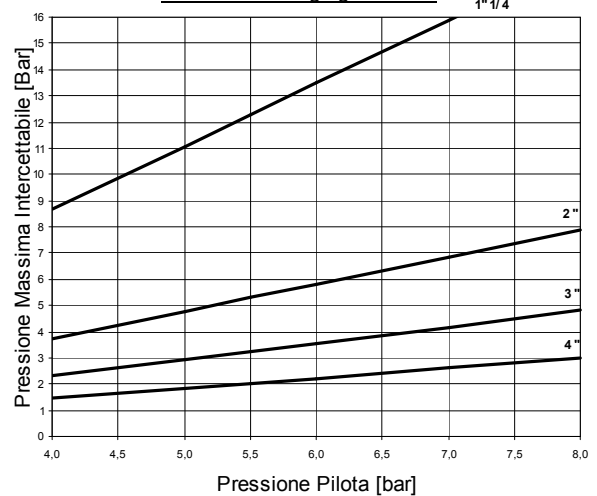
(water hammer risk with not-compressible fluids)

Codice Code	Filett. [gas] Gas pipe thread	DN	ΔP [bar]						V.aria(1) [NI/ciclo] V.air(1) NI/stroke	k _v ⁽²⁾ [m ³ /h]
			1.0	5.0	10.0	20.0	30.0	40.0		
83114	1"1/4	32	0.9	1.4	2.9	4.4	6.9	8.4	0.2356	28.2
83200	2"	50	1.3	2.3	5.0	7.8	-	-	0.2356	50.2
83300N	3"	80	1.8	3.4	8.0	-	-	-	0.9060	152.7
83400	4"	100	2.8	5.4	-	-	-	-	0.9903	256.7

INCA-NC-Z Ingresso sopra otturatore
INCA-NC-Z Closing with flow



INCA-DE Ingresso sotto otturatore
INCA-DA Closing against flow



INCA-DE Ingresso sopra otturatore
INCA-DA Closing with flow

