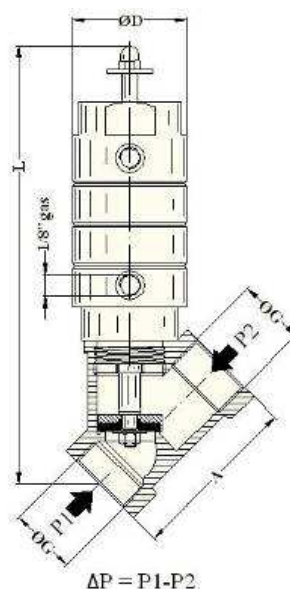


# AKY

ANGLE SEAT VALVE  
Max fluid temperature

+100°C



Sizes	1/2" - 2" (PN16)
Pipe threads	F/F gas ISO228
Angle	yes .....Y
Normally closed (NC)	yes cod. 11....
Normally open (NO)	yes cod. 12....
Double acting (DA)	yes cod. 13....
Ambient temperature	-20° / +60°C
Pilot pressure	Min 5 bar - Max 8 bar
Valve body	Brass
Spacer	not
Rotable cylinder	not
Seal holder	Brass
Piston	Aluminium
Cylinder	Anodized aluminium
Piston rod	Stainless steel aisi 304
Rod wiper	not
Rod guide	not
Internal o-rings	Fkm
Shutter seal	Fkm (on request Ptfе, Epdm)
Stem for visual indication	Stem

### AK-Y-NC. Closing against flow

Codice Code	Filett. [gas] Gas pipe thread	DN	A	L (max)	D	Ø cilindro Ø cylinder	ΔP Max [bar]	V.aria(1) [NI/ciclo] V.air(1) NI/stroke	kv(2) [m <sup>3</sup> /h]
11012Y	1/2"	15	56	213	50	30	14.0	0.0309	3.5
11034Y	3/4"	20	68	208	50	30	7.3	0.0356	5.8
11100Y	1"	25	78	218	50	30	4.2	0.0285	9.9
11114Y	1"1/4	32	100	238	50	30	2.3	0.0356	17.9
11112Y	1"1/2	40	110	244	60	48	3.1	0.0912	25.3
11200Y	2"	50	124	269	60	48	1.3	0.1586	51.9

### AK-Y-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
			1.0	2.0	5.0	8.0	13.0	16.0	
			Press. Pilota Minima [bar] / Min Pilot Pressure [bar]						
11012YZ	1/2"	15	2.9	3.0	3.2	3.4	3.7	4.0	0.0259
11034YZ	3/4"	20	2.8	3.1	3.8	4.5	5.7	6.4	0.0377
11100YZ	1"	25	3.2	3.7	5.3	6.9	9.6	-	0.0354
11114YZ	1"1/4	32	3.6	4.6	7.6	-	-	-	0.0401
11112YZ	1"1/2	40	1.4	1.9	3.6	5.2	7.9	9.5	0.1256
11200YZ	2"	50	1.9	2.9	5.9	8.9	-	-	0.1256

### AK-Y-NO. 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	kv <sup>(2)</sup> [m <sup>3</sup> /h]
			4.0	5.0	5.5	6.0	7.0	8.0		
			ΔP Max [bar]							
12012Y	1/2"	15	7.4	12.5	15.1	≤16	≤16	≤16	0.0190	3.0
12034Y	3/4"	20	4.3	7.1	8.4	9.8	12.6	15.4	0.0309	5.5
12100Y	1"	25	2.3	3.9	4.6	5.4	6.9	8.4	0.0356	10.5
12114Y	1"1/4	32	1.1	2.0	2.5	2.9	3.8	4.7	0.0594	20.4
12112Y	1"1/2	40	3.7	5.4	6.2	7.1	8.8	10.5	0.0950	25.4
12200Y	2"	50	1.9	2.8	3.3	3.8	4.7	5.7	0.0950	45.2

(1) → 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 (Patm = 1,01325 [bar], at the temperature of 20°C)

(2) → The flow factor Kv 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/m<sup>3</sup>.

### AK-Y-DA. Closing against flow

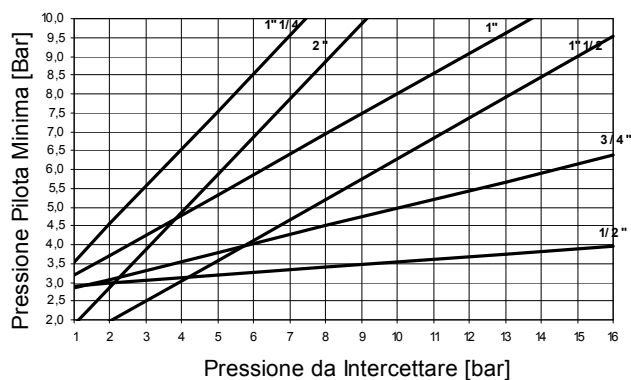
Codice Code	Filett. [gas] Gas pipe thread	DN	Pressione Pilota [bar] / Pilot Pressure [bar]						V.aria(1) [NI/ciclo] V.air(1) NI/stroke	k <sub>v</sub> <sup>(2)</sup> [m <sup>3</sup> /h]
			4.0	5.0	5.5	6.0	7.0	8.0		
13012Y	1/2"	15	≤16	≤16	≤16	≤16	≤16	≤16	0.0380	3.0
13034Y	3/4"	20	9.1	11.9	13.2	14.6	≤16	≤16	0.0617	5.5
13100Y	1"	25	5.0	6.5	7.2	8.0	9.5	11.0	0.0712	10.5
13114Y	1"1/4	32	2.9	3.8	4.3	4.7	5.6	6.5	0.1187	20.4
13112Y	1"1/2	40	6.3	8.0	8.8	9.7	11.4	13.1	0.1879	25.4
13200Y	2"	50	3.5	4.5	5.0	5.4	6.4	7.3	0.1879	45.2

### AK-Y-DA. Closing with flow

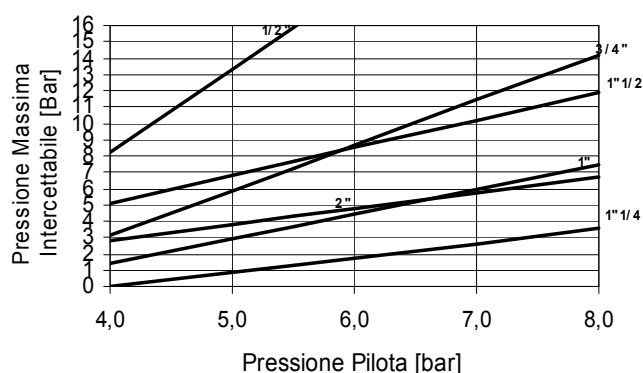
(water hammer risk with not-compressible fluids)

Codice Code	Filett. [gas] Gas pipe thread	DN	ΔP [bar]						V.aria(1) [NI/ciclo] V.air(1) NI/stroke
			1.0	2.0	5.0	8.0	13.0	16.0	
13012Y	1/2"	15	0.8	0.9	1.1	1.3	1.6	1.8	0.0380
13034Y	3/4"	20	1.0	1.2	1.9	2.6	3.8	4.5	0.0617
13100Y	1"	25	1.3	1.8	3.4	5.0	7.7	9.3	0.0712
13114Y	1"1/4	32	1.7	2.7	5.7	8.7	-	-	0.1187
13112Y	1"1/2	40	0.9	1.4	3.1	4.8	7.7	9.4	0.1879
13200Y	2"	50	1.3	2.4	5.4	8.5	-	-	0.1879

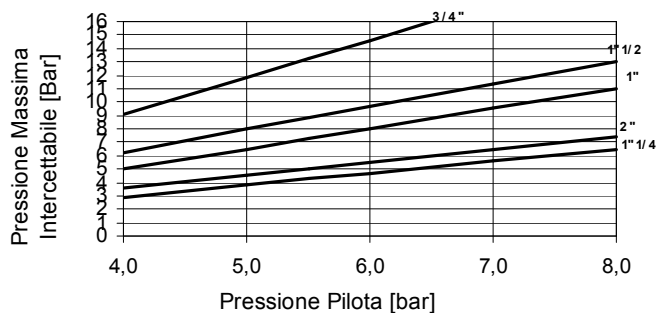
AKY-NC-Z Ingresso sopra otturatore  
AKY-NCZ Closing with flow



AKY-NA Ingresso sotto otturatore  
AKY-NO Closing against flow



AKY-DE Ingresso sotto otturatore  
AKY-DA Closing against flow  
(1/2" sempre verificato a PN16/always verified at PN16)



AKY-DE Ingresso sopra otturatore  
AKY-DA Closing with flow  
(1/2" sempre verificato a PN16/always verified at PN16)

