

ANGLE SEAT VALVE
SERIES NRY NC, NO, DA
COMPLETE OR ACTUATOR ONLY

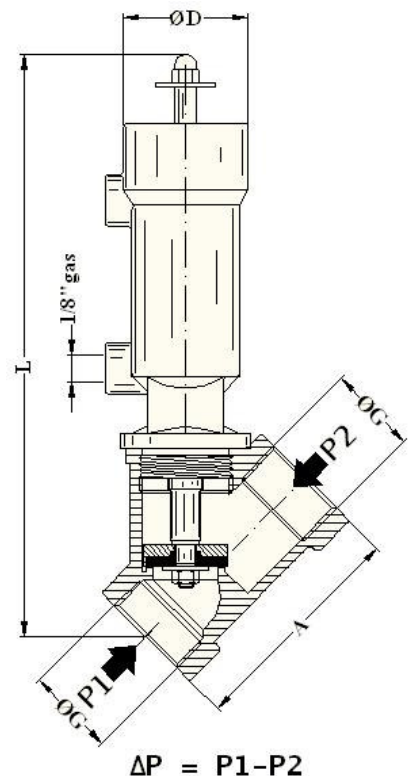
TECHNICAL FEATURES

- SHUTTER: FLAT SEAL
- SEAT: INCLINED 45°
- ACTUATOR: SINGLE ACTING CYLINDER WITH SPRING RETURN (NC/NO) OR DOUBLE ACTING CYLINDER (DA)
- PILOT PRESSURE: MIN 5 BAR - MAX 8 BAR
- AMBIENT TEMPERATURE: FROM 0°C TO 60°C
- CYLINDER BORE: 30, 33 MM
- MAX FLUID TEMPERATURE: 80° C
- EQUIPPED WITH STEM FOR VISUAL INDICATION OF OPEN / CLOSED POSITION

MAIN MATERIALS

- CYLINDER: HEAT-STABILIZED NYLON 66
- PISTON: ALUMINUM ALLOY
- PISTON ROD: STAINLESS STEEL AISI 304
- SEAL HOLDER: BRASS
- SEAL: FKM
- VALVE BODY (PN16): BRASS

O-RING IN CONTACT WITH FLUID IN FKM



SIZE							MAX ΔP (bar)						
CODE	G ("GAS)	FUNCTION	A	L (max)	D	CYL. BORE	NC FUNCTION	PILOT PRESSURE [bar] NO/DA FUNCTION					
								4.0	5.0	5.5	6.0	7.0	8.0
161012	1/2"	NC	56	189	41.5	30	13.9	-	-	-	-	-	-
161034	3/4"	NC	65	187	41.5	30	6.2	-	-	-	-	-	-
161100	1"	NC	75	194	41.5	30	4.8	-	-	-	-	-	-
161114	1" 1/4	NC	98	216	41.5	30	2.5	-	-	-	-	-	-
161112	1" 1/2	NC	102	225	46.5	33	1.9	-	-	-	-	-	-
161200	2"	NC	118	236	46.5	33	1.5	-	-	-	-	-	-
162012	1/2"	NO	56	204	41.5	30	-	8.2	12.5	14.5	15.6	≤16.0	≤16.0
162034	3/4"	NO	65	202	41.5	30	-	4.0	6.1	8.2	8.5	10.2	12.0
162100	1"	NO	75	209	41.5	30	-	2.8	3.8	4.1	5.2	6.0	7.6
162114	1" 1/4	NO	98	231	41.5	30	-	1.7	2.3	2.7	3.0	3.7	4.5
162112	1" 1/2	NO	102	240	46.5	33	-	0.8	1.2	1.8	1.9	2.2	3.0
162200	2"	NO	118	251	46.5	33	-	0.2	0.6	1.0	1.1	1.4	1.7
163012	1/2"	DA	56	204	41.5	30	-	13.1	15.4	≤16.0	≤16.0	≤16.0	≤16.0
163034	3/4"	DA	65	202	41.5	30	-	11.1	13.8	15.5	≤16.0	≤16.0	≤16.0
163100	1"	DA	75	209	41.5	30	-	6.0	7.6	8.5	9.1	10.6	12.1
163114	1" 1/4	DA	98	231	41.5	30	-	3.6	4.4	5.0	5.3	6.2	7.1
163112	1" 1/2	DA	102	240	46.5	33	-	3.1	3.8	4.3	4.6	5.3	6.1
163200	2"	DA	118	251	46.5	33	-	1.7	2.1	2.4	2.6	3.0	3.4

ANGLE SEAT VALVE
SERIES AKY NC, NO, DA
COMPLETE OR ACTUATOR ONLY

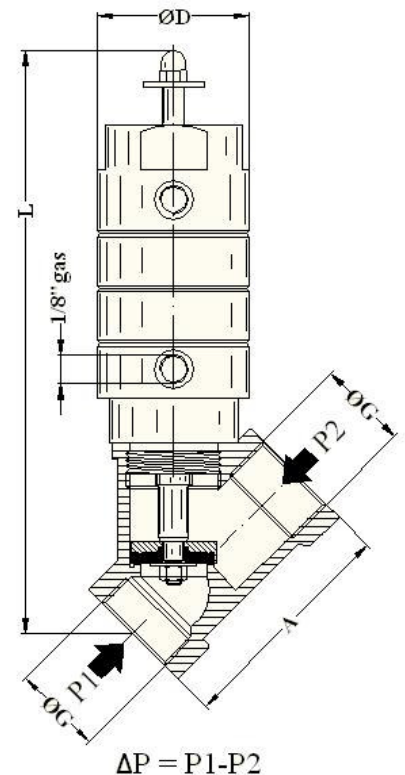
TECHNICAL FEATURES

- SHUTTER: FLAT SEAL
- SEAT: INCLINED 45°
- ACTUATOR: SINGLE ACTING CYLINDER WITH SPRING RETURN (NC/NO) OR DOUBLE ACTING CYLINDER (DA)
- PILOT PRESSURE: MIN 5 BAR - MAX 10 BAR
- AMBIENT TEMPERATURE: FROM -20°C TO 60°C
- CYLINDER BORE: 30, 48 MM
- MAX FLUID TEMPERATURE: 100° C
- EQUIPPED WITH STEM FOR VISUAL INDICATION OF OPEN/CLOSED POSITION



MAIN MATERIALS

- CYLINDER: ANODIZED ALUMINUM ALLOY
- PISTON: ALUMINUM ALLOY
- PISTON ROD: STAINLESS STEEL AISI 304
- SEAL HOLDER: BRASS
- SEAL: FKM
- VALVE BODY (PN16): BRASS



O-RING IN CONTACT WITH FLUID IN FKM

SIZE							MAX ΔP (bar)						
CODE	G ("GAS)	FUNCTION	A	L (max)	D	CYL. BORE	NC FUNCTION	PILOT PRESSURE [bar] NO/DA FUNCTION					
								4.0	5.0	5.5	6.0	7.0	8.0
11012Y	1/2"	NC	54	186	50	30	14.0	-	-	-	-	-	-
11034Y	3/4"	NC	65	184	50	30	7.2	-	-	-	-	-	-
11100Y	1"	NC	75	191	50	30	5.0	-	-	-	-	-	-
11114Y	1" 1/4	NC	98	213	50	30	2.5	-	-	-	-	-	-
11112Y	1" 1/2	NC	102	222	60	48	3.5	-	-	-	-	-	-
11200Y	2"	NC	118	233	60	48	2.0	-	-	-	-	-	-
12012Y	1/2"	NO	54	201	50	30	-	8.9	12.7	14.8	≤16.0	≤16.0	≤16.0
12034Y	3/4"	NO	65	204	50	30	-	4.5	6.8	7.6	9.4	11.5	13.9
12100Y	1"	NO	75	211	50	30	-	3.2	4.4	5.0	5.7	7.3	8.5
12114Y	1" 1/4	NO	98	233	50	30	-	1.3	2.0	2.4	2.8	3.5	4.2
12112Y	1" 1/2	NO	102	242	60	48	-	3.6	5.0	5.7	6.4	8.0	9.5
12200Y	2"	NO	118	253	60	48	-	2.0	3.1	3.6	4.0	5.2	6.4
13012Y	1/2"	DA	54	201	50	30	-	15.9	≤16.0	≤16.0	≤16.0	≤16.0	≤16.0
13034Y	3/4"	DA	65	204	50	30	-	9.2	12.5	13.9	14.4	≤16.0	≤16.0
13100Y	1"	DA	75	211	50	30	-	6.0	7.4	8.0	9.1	10.7	12.9
13114Y	1" 1/4	DA	98	233	50	30	-	3.2	3.7	4.2	4.6	5.2	6.0
13112Y	1" 1/2	DA	102	242	60	48	-	6.3	7.7	8.4	9.5	10.6	13.8
13200Y	2"	DA	118	253	60	48	-	4.1	5.0	5.6	6.2	7.3	8.4

RIGHT ANGLED SEAT VALVES
SERIE SELUB Y NC, NO, DA
SELF-LUBRICATED
COMPLETE OR ACTUATOR ONLY

TECHNICAL FEATURES

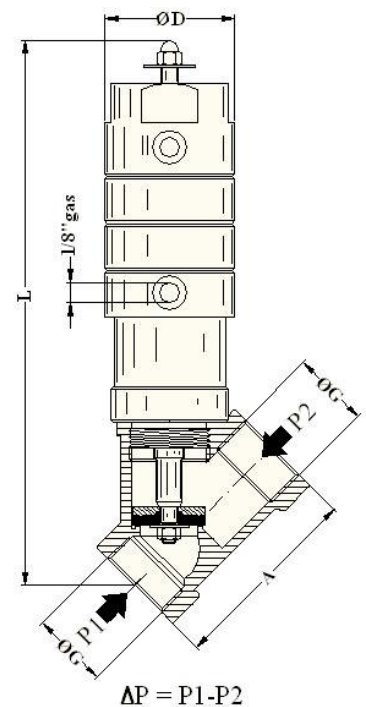
- SHUTTER: FLAT SEAL
- SEAT: INCLINED 45°
- ACTUATOR: SINGLE ACTING CYLINDER WITH SPRING RETURN (NC/NO) OR DOUBLE ACTING CYLINDER (DA)
- LUBRICATION: SELF-LUBRICATING ROD GUIDE
- PILOT PRESSURE: MIN 5 BAR - MAX 10 BAR
- AMBIENT TEMPERATURE: FROM -20°C TO 80° C
- CYLINDER BORE: 30, 48 MM
- MAX FLUID TEMPERATURE: 120°C
- EQUIPPED WITH STEM FOR VISUAL INDICATION OF OPEN/CLOSED POSITION



MAIN MATERIALS

- CYLINDER: ANODIZED ALUMINUM ALLOY
- PISTON: ALUMINUM ALLOY
- PISTON ROD: STAINLESS STEEL AISI 304
- EXTENSION ADAPTER: BRASS
- SEAL HOLDER: BRASS
- SEAL: FKM
- ROD WIPER: PTFE
- ROD GUIDE: SPECIAL TECHNOPOLYMER
- VALVE BODY (PN16): BRASS

O-RING IN CONTACT WITH FLUID IN FKM



SIZE							MAX ΔP (bar)						
CODE	G ("GAS)	FUNCTION	A	L (max)	D	CYL. BORE	NC FUNCTION	PILOT PRESSURE [bar] NO/DA FUNCTION					
								4.0	5.0	5.5	6.0	7.0	8.0
91012Y	1/2"	NC	54	211	50	30	14.0	-	-	-	-	-	-
91034Y	3/4"	NC	65	209	50	30	7.2	-	-	-	-	-	-
91100Y	1"	NC	75	216	50	30	5.0	-	-	-	-	-	-
91114Y	1" 1/4	NC	98	238	50	30	2.5	-	-	-	-	-	-
91112Y	1" 1/2	NC	102	247	60	48	3.5	-	-	-	-	-	-
91200Y	2"	NC	118	258	60	48	2.0	-	-	-	-	-	-
92012Y	1/2"	NO	54	226	50	30	-	8.9	12.7	14.8	≤16.0	≤16.0	≤16.0
92034Y	3/4"	NO	65	224	50	30	-	4.5	6.8	7.6	9.4	11.5	13.9
92100Y	1"	NO	75	231	50	30	-	3.2	4.4	5.0	5.7	7.3	8.5
92114Y	1" 1/4	NO	98	253	50	30	-	1.3	2.0	2.4	2.8	3.5	4.2
92112Y	1" 1/2	NO	102	262	60	48	-	3.6	5.0	5.7	6.4	8.0	9.5
92200Y	2"	NO	118	273	60	48	-	2.0	3.1	3.6	4.0	5.2	6.4
93012Y	1/2"	DA	54	226	50	30	-	15.9	≤16.0	≤16.0	≤16.0	≤16.0	≤16.0
93034Y	3/4"	DA	65	224	50	30	-	9.2	12.5	13.9	14.4	≤16.0	≤16.0
93100Y	1"	DA	75	231	50	30	-	6.0	7.4	8.0	9.1	10.7	12.9
93114Y	1" 1/4	DA	98	253	50	30	-	3.2	3.7	4.2	4.6	5.2	6.0
93112Y	1" 1/2	DA	102	262	60	48	-	6.3	7.7	8.4	9.5	10.6	13.8
93200Y	2"	DA	118	273	60	48	-	4.1	5.0	5.6	6.2	7.3	8.4

ANGLE SEAT VALVE

SERIES THEMAL Y 50 NC, NO, DA

SELF-LUBRICATED

**OPTIONAL: BRASS SPACER, VALVE BODY AND SEAL HOLDER
NICKEL-PLATED (NIPLOY PROCESS)**

TECHNICAL FEATURES

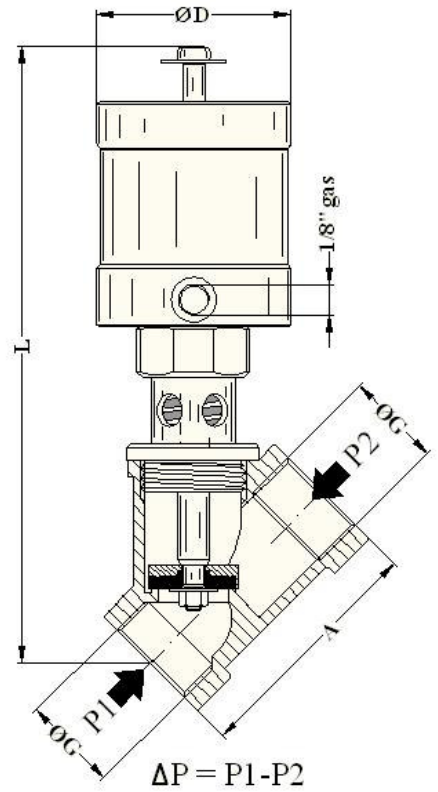
- SHUTTER: FLAT SEAL
- SEAT: INCLINED 45°
- ACTUATOR: SINGLE ACTING CYLINDER WITH SPRING RETURN (NC/NO) OR DOUBLE ACTING CYLINDER (DA)
- LUBRICATION: SELF-LUBRICATING ROD GUIDE
- PILOT PRESSURE: MIN 4 BAR - MAX 10 BAR
- AMBIENT TEMPERATURE: FROM - 20°C TO 80°C
- CYLINDER BORE: 50 MM
- MAX FLUID TEMPERATURE: 180°C (PTFE) 150° C (FKM)
- EQUIPPED WITH STEM FOR VISUAL INDICATION OF OPEN / CLOSED POSITION

MAIN MATERIALS

- CYLINDER: ANODIZED ALUMINUM ALLOY
- PISTON: ALUMINUM ALLOY
- PISTON ROD: ACCIAIO INOX AISI 304
- TRHEADED HEAD: BRASS
- SEAL HOLDER: BRASS
- SEAL: PTFE, FKM, EPDM
- ROD GUIDE: SPECIAL TECHNOPOLYMER
- ROD WIPER: PTFE
- VALVE BODY (PN16): OTTONE

ALL INTERNAL O-RING ARE IN FKM

**DESIGNED FOR HIGH TEMPERATURE FLUID,
PARTICULALY SUITABLE FOR STEAM**



SIZE							MAX ΔP (bar)						
CODE	G ("GAS)	FUNCTION	A	L (max)	D	CYL. BORE	NC FUNCTION	PILOT PRESSURE [bar] NO/DA FUNCTION					
								4.0	5.0	5.5	6.0	7.0	8.0
3991012	1/2"	NC	54	181	60	50	≤ 16.0	-	-	-	-	-	-
3991034	3/4"	NC	65	191	60	50	12.0	-	-	-	-	-	-
3991100	1"	NC	75	198	60	50	9.5	-	-	-	-	-	-
3992012	1/2"	NO	54	193	60	50	-	≤ 16.0	≤ 16.0	≤ 16.0	≤ 16.0	≤ 16.0	≤ 16.0
3992034	3/4"	NO	65	203	60	50	-	10.3	≤ 16.0	≤ 16.0	≤ 16.0	≤ 16.0	≤ 16.0
3992100	1"	NO	75	210	60	50	-	5.7	8.6	10.2	11.5	15.2	≤ 16.0
3993012	1/2"	DA	54	193	60	50	-	≤ 16.0	≤ 16.0	≤ 16.0	≤ 16.0	≤ 16.0	≤ 16.0
3993034	3/4"	DA	65	212203	60	50	-	≤ 16.0	≤ 16.0	≤ 16.0	≤ 16.0	≤ 16.0	≤ 16.0
3993100	1"	DA	75	225210	60	50	-	10.0	13.2	15.2	15.8	≤ 16.0	≤ 16.0

ANGLE SEAT VALVE

SERIES THEMAL Y 50-60-80 NC, NO, DA

SELF-LUBRICATED

TECHNICAL FEATURES

- SHUTTER: FLAT SEAL
- SEAT: INCLINED 45°
- ACTUATOR: SINGLE ACTING CYLINDER WITH SPRING RETURN (NC/NO) OR DOUBLE ACTING CYLINDER (DA)
- LUBRICATION: SELF-LUBRICATING ROD GUIDE
- PILOT PRESSURE: MIN 5.5 BAR - MAX 8 BAR
- AMBIENT TEMPERATURE: FROM -20°C TO 80°C
- CYLINDER BORE: 50, 60, 80 MM
- MAX FLUID TEMPERATURE: 180°C (PTFE) 150° C (FKM)
- EQUIPPED WITH STEM FOR VISUAL INDICATION OPEN / CLOSED POSITION

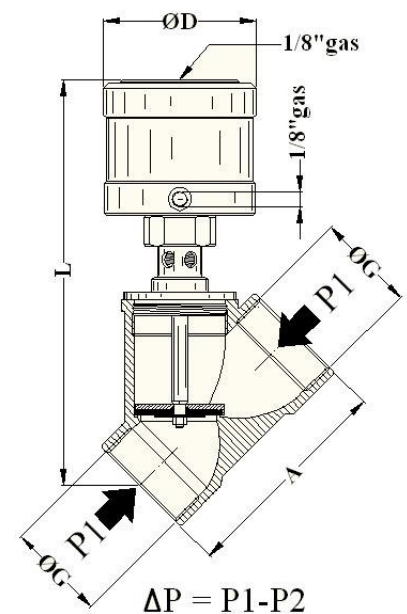


OF

MAIN MATERIALS

- CYLINDER: ANODIZED ALUMINUM ALLOY
- PISTON: ALUMINUM ALLOY
- PISTON ROD: STAINLESS STEEL AISI 304
- TRHEADED HEAD: BRASS
- SEAL HOLDER: BRASS
- SEAL: PTFE, FKM, EPDM
- ROD GUIDE: SPECIAL TECHNOPYLIMER
- ROD WIPER: PTFE
- VALVE BODY (PN16): BRASS

ALL INTERNAL O-RING ARE IN FKM



**DESIGNED FOR HIGH TEMPERATURE FLUID,
PARTICULALY SUITABLE FOR STEAM**

OPTIONAL:

- **BRASS SPACER, VALVE BODY AND SEAL HOLDER NICKEL-PLATED**
- **ROTABLE ACTUATOR 360°**

SIZE							MAX ΔP (bar)						
CODE	G ("GAS)	FUNCTION	A	L (max)	D	CYL. BORE	NC FUNCTION	PILOT PRESSURE [bar] NO/DA FUNCTION					
								4.0	5.0	5.5	6.0	7.0	8.0
3991012A	1/2"	NC	54	191	60	50	≤16.0	-	-	-	-	-	-
3991034A	3/4"	NC	65	201	60	50	12.0	-	-	-	-	-	-
3991100A	1"	NC	75	208	60	50	9.5	-	-	-	-	-	-
3992012A	1/2"	NO	54	203	60	50	-	≤16.0	≤16.0	≤16.0	≤16.0	≤16.0	≤16.0
3992034A	3/4"	NO	65	213	60	50	-	10.3	≤16.0	≤16.0	≤16.0	≤16.0	≤16.0
3992100A	1"	NO	75	220	60	50	-	5.7	8.6	10.2	11.5	15.2	≤16.0
3993012A	1/2"	DA	54	203	60	50	-	≤16.0	≤16.0	≤16.0	≤16.0	≤16.0	≤16.0
3993034A	3/4"	DA	65	213	60	50	-	≤16.0	≤16.0	≤16.0	≤16.0	≤16.0	≤16.0
3993100A	1"	DA	75	220	60	50	-	10.0	13.2	15.2	15.8	≤16.0	≤16.0
3991114	1" 1/4	NC	98	205	70	60	9.4	-	-	-	-	-	-
3991112	1" 1/2	NC	102	224	95	80	15.0	-	-	-	-	-	-
3991200	2"	NC	118	236	95	80	10.3	-	-	-	-	-	-
3992114	1" 1/4	NO	98	205	70	60	-	9.2	11.5	12.7	14.0	≤16.0	≤16.0
3992112	1" 1/2	NO	102	214	70	60	-	7.8	10.3	11.6	12.7	15.3	≤16.0
3992200	2"	NO	118	225	70	60	-	5.2	6.5	7.0	7.6	8.7	10.2
3993114	1" 1/4	DA	98	205	70	60	-	11.4	14.3	≤16.0	≤16.0	≤16.0	≤16.0
3993112	1" 1/2	DA	102	214	70	60	-	9.7	12.5	14.5	15.8	≤16.0	≤16.0
3993200	2"	DA	118	225	70	60	-	6.5	8.2	8.8	9.5	10.8	12.5

ANGLE SEAT VALVE

SERIES X-RAFAL 50-60 NC, NO, DA

SELF-LUBRICATED

TECHNICAL FEATURES

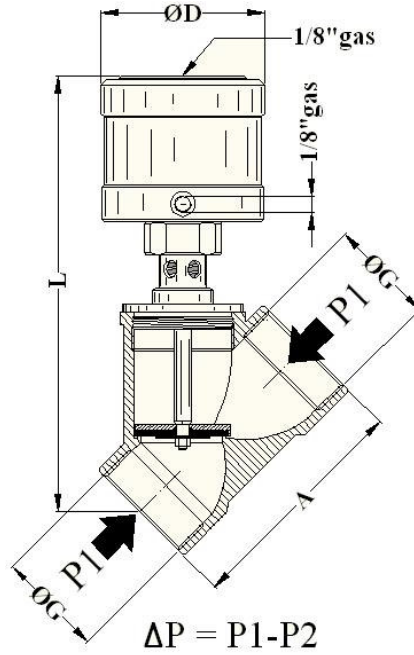
- SHUTTER: FLAT SEAL
- SEAT: INCLINED 45°
- ACTUATOR: SINGLE ACTING CYLINDER WITH SPRING RETURN (NC/NO) OR DOUBLE ACTING CYLINDER (DA)
- LUBRICATION: SELF-LUBRICATING ROD GUIDE
- PILOT PRESSURE: MIN 4 BAR - MAX 10 BAR
- AMBIENT TEMPERATURE: FROM - 20°C TO 80°C
- CYLINDER BORE: 50 MM
- MAX FLUID TEMPERATURE: 180°C (PTFE) 150° C (FKM)
- EQUIPPED WITH STEM FOR VISUAL INDICATION OF OPEN / CLOSED POSITION
- ROTATABLE ACTUATOR 360°

MAIN MATERIALS

- CYLINDER: ANODIZED ALUMINUM ALLOY
- PISTON: ALUMINUM ALLOY
- PISTON ROD: ACCIAIO INOX
- TRHEADED HEAD: STAINLESS STEEL AISI 316
- SEAL HOLDER: STAINLESS STEEL
- SEAL: PTFE, FKM, EPDM
- ROD GUIDE: SPECIAL TECHNOPOLYMER
- ROD WIPER: PTFE
- VALVE BODY (PN40): STAINLESS STEEL AISI 316

ALL INTERNAL O-RING ARE IN FKM

**DESIGNED FOR HIGH TEMPERATURE FLUID,
PARTICULALY SUITABLE FOR STEAM**



SIZE							MAX ΔP (bar)						
CODE	G ("GAS)	FUNCTION	A	L (max)	D	CYL. BORE	NC FUNCTION	PILOTA PRESSURE [bar] NO/DA FUNCTION					
								4.0	5.0	5.5	6.0	7.0	8.0
71012	1/2"	NC	54	169	60	50	20.0	-	-	-	-	-	-
71034	3/4"	NC	65	177	60	50	9.7	-	-	-	-	-	-
71100	1"	NC	75	195	60	60	13.0	-	-	-	-	-	-
72012	1/2"	NO	54	202	60	50	-	19.0	29.8	≤40.0	≤40.0	≤40.0	≤40.0
72034	3/4"	NO	65	212	60	50	-	10.3	16.2	18.8	21.7	27.5	33.2
72100	1"	NO	75	225	60	60	-						
73012	1/2"	DA	54	202	60	50	-	33.8	≤40.0	≤40.0	≤40.0	≤40.0	≤40.0
73034	3/4"	DA	65	212	60	50	-	18.3	24.2	27.3	29.7	35.6	≤40.0
73100	1"	DA	75	225	60	60	-						

ANGLE SEAT VALVE

SERIES NRY - CX NC, NO, DA

COMPLETE OR ACTUATOR ONLY

(CONSISTENT WITH SANITATION AND WASHING PROCESS)



TECHNICAL FEATURES

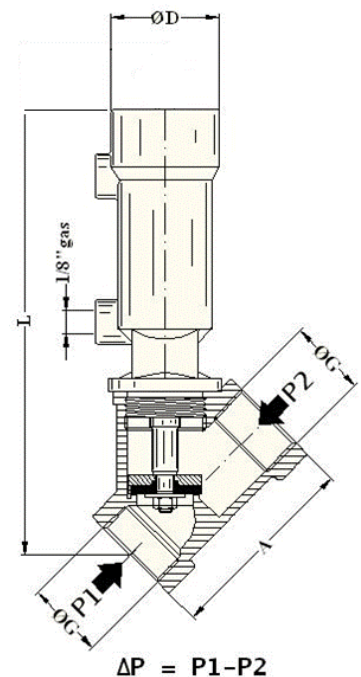
- SHUTTER: FLAT SEAL
- SEAT: INCLINED 45°
- ACTUATOR: SINGLE ACTING CYLINDER WITH SPRING RETURN (NC/NO) OR DOUBLE ACTING CYLINDER (DA)
- PILOT PRESSURE: MIN 5 BAR - MAX 8 BAR
- AMBIENT TEMPERATURE: FROM 0°C TO 60°C
- CYLINDER BORE: 30, 33 MM
- MAX FLUID TEMPERATURE: 80° C

MAIN MATERIALS

- CYLINDER: HEAT-STABILIZED NYLON 66
- PISTON: ALUMINUM ALLOY
- CILYNDER BOTTON : STAINLESS STEEL AISI 304
- CIRCLIP : STAINLESS STEEL AISI 316
- PISTON ROD: STAINLESS STEEL AISI 304
- SEAL HOLDER: BRASS NICKEL PLATED 15μ
- SEAL: FKM
- VALVE BODY (PN16): BRASS NICKEL PLATED 15μ

NICKEL PLATING AS OPTIONAL (NIPLOY PROCESS) IS CERTIFIED TO COMPLY WITH FOOD CONTACT RULES

O-RING IN CONTACT WITH FLUID IN FKM



SIZE							MAX ΔP (bar)						
CODE	G ("GAS)	FUNCTION	A	L (max)	D	CYL. BO- RE	NC FUN- CTION	PILOT PRESSURE [bar] NO/DA FUNCTION					
								4.0	5.0	5.5	6.0	7.0	8.0
161012CX	1/2"	NC	56	159	41.5	30	13.9	-	-	-	-	-	-
161034CX	3/4"	NC	65	157	41.5	30	6.2	-	-	-	-	-	-
161100CX	1"	NC	75	164	41.5	30	4.8	-	-	-	-	-	-
161114CX	1" 1/4	NC	98	186	41.5	30	2.5	-	-	-	-	-	-
161112CX	1" 1/2	NC	102	195	46.5	33	1.9	-	-	-	-	-	-
161200CX	2"	NC	118	206	46.5	33	1.5	-	-	-	-	-	-
162012CX	1/2"	NO	56	159	41.5	30	-	8.2	12.5	14.5	15.6	≤16.0	≤16.0
162034CX	3/4"	NO	65	157	41.5	30	-	4.0	6.1	8.2	8.5	10.2	12.0
162100CX	1"	NO	75	164	41.5	30	-	2.8	3.8	4.1	5.2	6.0	7.6
162114CX	1" 1/4	NO	98	186	41.5	30	-	1.7	2.3	2.7	3.0	3.7	4.5
162112CX	1" 1/2	NO	102	195	46.5	33	-	0.8	1.2	1.8	1.9	2.2	3.0
162200CX	2"	NO	118	206	46.5	33	-	0.2	0.6	1.0	1.1	1.4	1.7
163012CX	1/2"	DA	56	159	41.5	30	-	13.1	15.4	≤16.0	≤16.0	≤16.0	≤16.0
163034CX	3/4"	DA	65	157	41.5	30	-	11.1	13.8	15.5	≤16.0	≤16.0	≤16.0
163100CX	1"	DA	75	164	41.5	30	-	6.0	7.6	8.5	9.1	10.6	12.1
163114CX	1" 1/4	DA	98	186	41.5	30	-	3.6	4.4	5.0	5.3	6.2	7.1
163112CX	1" 1/2	DA	102	195	46.5	33	-	3.1	3.8	4.3	4.6	5.3	6.1
163200CX	2"	DA	118	206	46.5	33	-	1.7	2.1	2.4	2.6	3.0	3.4