

Non-return valve Series CH010, CH011, CH012, CH013



Design type	Wafer check valve with elastomer seal, O-rings are included as standard as flange seals in the scope of delivery
Connection	DN32...DN350 Installation between flanges according to EN1092 or rather ANSI B16.5 see table "Dimensions"
Materials	CH010, CH012: Housing steel, zinc-plated, DN32...DN150 Disc Stainless steel AISI316L - DN200...DN350 Disc Galvanized steel, Standard seals NBR CH011, CH013: Disc and body made of stainless steel 1.4404, Standard seals FKM
Application range	Fluids and gases of group 1 and 2 in accordance with PED 2014/68/EU that do not attack the materials used.
Medium temperature	Galvanized steel: -10 ...+250°C Stainless steel AISI316L: -50 ...+510°C depending on the seal used
Operating pressure range	see pressure-temperature diagram and depending on the flange used
Flow direction	CH012, CH013 any, CH010, CH011 from bottom to top or horizontal
Mounting position	horizontal or vertical
Approval	ATEX declaration Zones 1/2/21/22
Special versions	Housing steel 1.0570: Medium temperature -46...+250°C depending on the seal used, Installation between flanges PN6/PN16/PN40/PN64/PN100/ANSI150/ANSI300/ANSI600, oil-, grease- and silicone-free for oxygen, cleaned for drinking water



Type code

		CH 010 - 65 - V - 01				
	Return by own weight	010				
	Return by own weight	011				
	Return by spring force	012				
Type	Return by spring force	013				
Nominal size		32...350				
Seal	Standard seal Leave blank					
	NBR		N			
	EPDM		E			
	metallic		M			
	FKM		V			
	PTFE		T			
Special version	Inspection certificate 3.1 for material, pressure and tightness			3C		
	ANSI 150 instead of Standard PN			ANSI150		
	ANSI 300 instead of Standard PN			ANSI300		
	PN25 instead of Standard PN			PN25		
	PN40 instead of Standard PN			PN40		
	PN64 instead of Standard PN			PN64		
	described in the item text			01,02,03....		

Opening pressures in [mbar]:

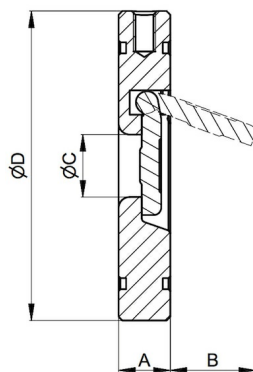
Nominal size DN[mm]	Flow direction CH010, CH011		Flow direction CH012, CH013		
					
DN40 - DN150	13	16	23	26	10
DN200 - DN300	19	22	32	35	10

Possible applications of the individual sealing materials:

Seal	Temperature range [°C]	Application
NBR	-20...+120	neutral gases and liquids
EPDM	-40...+130	Hot water, Steam, Oxygen
FKM	-50...+260	Gasoline, Diesel, Air, Oils, Water, neutral gases and liquids
PTFE	-50...+260	aggressive media, Steam

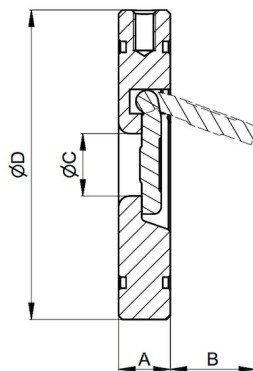


Dimensions



Nominal size DN[mm]	Flange nominal pressure EN1092	Flange nominal pressure ANSI B16.5	A	B	ØC	ØD	Kvs [m ³ /h]	Weight [approx. kg]	Type
32	PN10/16/25/40	ANSI300	14	20	17	84	7,5	0,5	CH0..-32
40	PN10/16/25/40	ANSI300	14	30	22	95	17,2	0,7	CH0..-40
50	PN10/16/25/40	ANSI300	14	35	32	109	25,4	0,9	CH0..-50
65	PN10/16/25/40	ANSI300	14	48	40	129	42,2	1,2	CH0..-65
80	PN10/16/25/40	ANSI300	14	60	54	144	67,0	1,5	CH0..-80
100	PN10/16	-	18	78	70	164	246,5	2,4	CH0..-100
125	PN10/16	ANSI150	18	98	92	195	547,4	3,4	CH0..-125
150	PN10/16	ANSI150	20	117	112	220	724,0	4,6	CH0..-150
200	PN10/16	-	22	160	154	275	1039,0	8,0	CH0..-200
250	PN10/16	-	26	200	200	330	1896,0	13,3	CH0..-250
300	PN10	-	32	235	240	380	2207,0	20,9	CH0..-300
350	PN10	-	82	-	270	440	-	32	CH0..-350

Dimensions Special flanges



Nominal size DN[mm]	A	B	ØC	ØD	Kvs [m ³ /h]	Weight [approx. kg]	Type
100	18	78	70	170	246,5	-	CH0..-100-PN25
125	18	98	92	198	547,4	-	CH0..-125-PN25
150	20	117	112	228	724,0	-	CH0..-150-PN25
200	22	160	154	285	1039,0	-	CH0..-200-PN25
250	26	200	200	340	1896,0	-	CH0..-250-PN25
300	32	235	240	403	2207,0	-	CH0..-300-PN25
350	38	-	270	460	-	-	CH0..-350-PN25

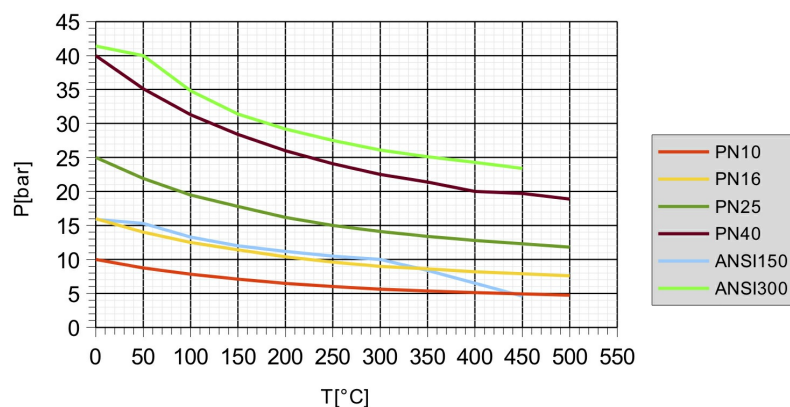


Nominal size DN[mm]	A	B	ØC	ØD	Kvs [m ³ /h]	Weight [approx. kg]	Type
100	22	78	70	170	246,5	-	CH0..-100-PN40
125	23	98	92	198	547,4	-	CH0..-125-PN40
150	24	117	112	228	724,0	-	CH0..-150-PN40
200	30	160	154	293	1039,0	-	CH0..-200-PN40
250	39	200	200	355	1896,0	-	CH0..-250-PN40
300	53	235	240	420	2207,0	-	CH0..-300-PN40

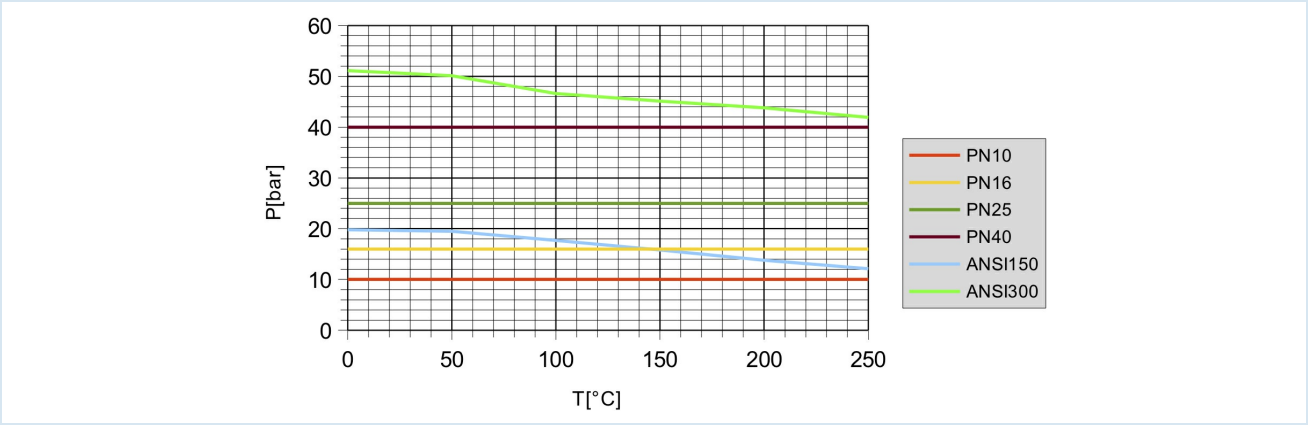
Nominal size DN[mm]	A	B	ØC	ØD	Kvs [m ³ /h]	Weight [approx. kg]	Type
32	14	20	17	76	7,5	-	CH0..-32-ANSI150
40	14	30	22	86	17,2	-	CH0..-40-ANSI150
50	14	35	32	105	25,4	-	CH0..-50-ANSI150
65	14	48	40	124	42,2	-	CH0..-65-ANSI150
80	14	60	54	137	67,0	-	CH0..-80-ANSI150
100	18	78	70	175	246,5	-	CH0..-100-ANSI150
200	22	160	154	195	1039,0	-	CH0..-200-ANSI150
250	26	200	200	220	1896,0	-	CH0..-250-ANSI150
300	32	235	240	279	2207,0	-	CH0..-300-ANSI150
350	38	-	270	448	-	-	CH0..-350-ANSI150

Nominal size DN[mm]	A	B	ØC	ØD	Kvs [m ³ /h]	Weight [approx. kg]	Type
100	22	78	70	148	246,5	-	CH0..-100-ANSI300
125	23	98	92	213	547,4	-	CH0..-125-ANSI300
150	24	117	112	248	724,0	-	CH0..-150-ANSI300
200	30	160	154	306	1039,0	-	CH0..-200-ANSI300
250	39	200	200	360	1896,0	-	CH0..-250-ANSI300
300	53	235	240	420	2207,0	-	CH0..-300-ANSI300

Pressure-temperature diagram Stainless steel



Pressure-temperature diagram Steel



Illustrations non-binding
Design, dimensional and material changes reserved

Armatures / Pressure regulators, safety valves and accessories / Other materials - A07 / Swing check valve Series CH010