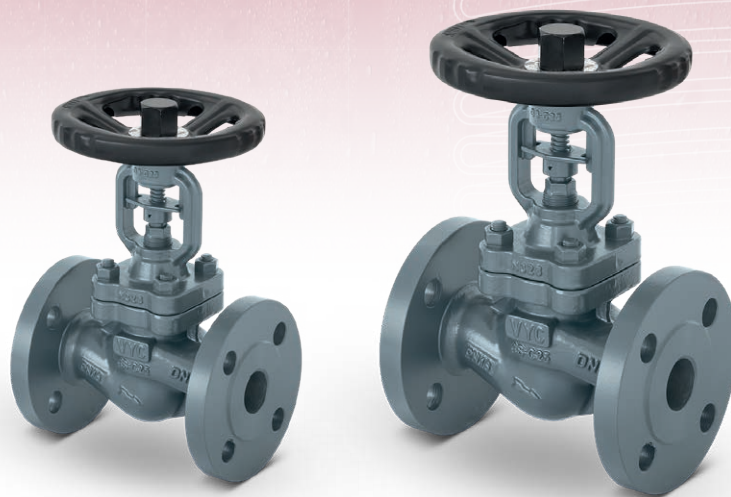




Stop valve with bellow seals

Mod. 248 | EN | ASME/ANSI

90 Ø



Operation

Stop valve with bellow seals, maintenance-free, designed with external spindle and support guide, thus avoiding the atmospheric emissions of conventional valves.

Specifications

Size

- DN 15 to DN 200

Size

- -40 to +400 °C

Applications

- Gas, steam and liquid

Materials

- Nodular Iron
- Cast steel
- Stainless steel

Maximum pressure

- Up to 40 bar

Regulation

- PED 2014/68/UE
- UNE-EN 12516-2
- UNE-EN 12516-4
- UNE-EN 1092-1
- UNE-EN 1092-2
- UNE-EN 12266-1
- UNE-EN 13709
- UNE-EN 1349
- UNE-EN 60534
- UNE-EN 558
- UNE-EN 12570
- ASME B16.5
- ASME B16.10

Certification

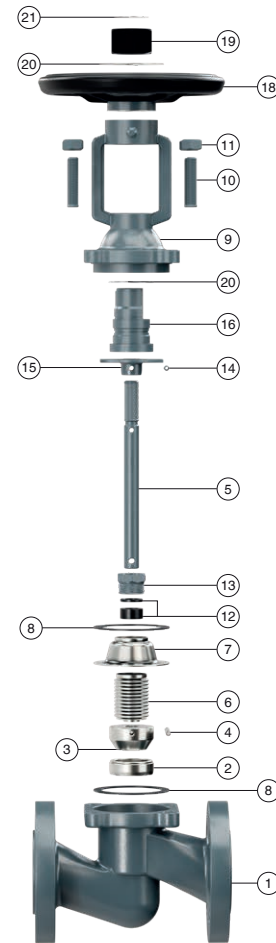


N° PIECE	PIECE	NODULAR IRON				CAST STEEL				STAINLESS STEEL				
1	Body	Nodular iron (EN-5.3103)				Cast steel (EN-1.0619)				Stainless steel (EN-1.4408)				
2	Seat	Stainless steel (EN-1.4021)				Stainless steel (EN-1.4021)				Stainless steel (EN-1.4408)				
3	Conical plug (1)	Stainless steel (EN-1.4021)				Stainless steel (EN-1.4021)				Stainless steel (EN-1.4401) + Stellite n°6				
4	Pin	Stainless steel (EN-1.4301)				Stainless steel (EN-1.4301)				Stainless steel (EN-1.4401)				
5	Rod	Stainless steel (EN-1.4021)				Stainless steel (EN-1.4021)				Stainless steel (EN-1.4401)				
6	Bellow	Stainless steel (EN-1.4301)				Stainless steel (EN-1.4301)				Stainless steel (EN-1.4404)				
7	Bellow disc	Stainless steel (EN-1.4301)				Stainless steel (EN-1.4301)				Stainless steel (EN-1.4401)				
8	Gasket body	Graphite + Stainless steel (EN-1.4301)				Graphite + Stainless steel (EN-1.4301)				Graphite + Stainless steel (EN-1.4401)				
9	Guide support	Nodular iron (EN-5.3103)				Cast steel (EN-1.0619)				Stainless steel (EN-1.4408)				
10	Bolt/Screw	Cast steel (EN-1.1191)				Cast steel (EN-1.1191)				Stainless steel (EN-1.4401)				
11	Nut	-				Cast steel (EN-1.1141)				Stainless steel (EN-1.4401)				
12	Packing	Graphite				Graphite				Graphite				
13	Stuffing box	Cast steel (EN-1.1191)				Cast steel (EN-1.1191)				Stainless steel (EN-1.4305)				
14	Pin	Cast steel (EN-1.1231)				Cast steel (EN-1.1231)				Stainless steel (EN-1.4301)				
15	Removable lock washer	Cast steel (EN-1.0037)				Cast steel (EN-1.0037)				Stainless steel (EN-1.4301)				
16	Insert nut	Cast steel (EN-1.1191)				Cast steel (EN-1.1191)				Bras (EN-CW617N)				
17	Grease fitting	Bras (EN-CW617N)				Bras (EN-CW617N)				Bras (EN-CW617N)				
18	Handwheel	Cast steel (EN-1.0517)				Cast steel (EN-1.0517)				Cast steel (EN-1.0517)				
19	Cap	Cast steel (EN-1.1191)				Cast steel (EN-1.1191)				Cast steel (EN-1.1191)				
20	Shim ring	Stainless steel (EN-1.4301)				Stainless steel (EN-1.4301)				Stainless steel (EN-1.4301)				
21	Plate	Aluminium				Aluminium				Aluminium				
DN		15 to 200 (EN, ANSI)												
PN		16				40								
OPERATING CONDITIONS EN 1092-1	PRESSURE [bar]	16,00	15,50	14,70	11,20	40,00	37,10	33,30	23,80	40,00	40,00	33,70	27,40	
	MAXIMUM TEMPERATURE [°C]	RT	150	200	350	RT	100	200	400	RT	100	200	400	
	MINIMUM TEMPERATURE [°C]	-10				-10				-40				
CLASS		150#				150#								
OPERATING CONDITIONS 150# ASME B16.5	PS [bar]	19,60				17,70	13,80	5,50	19,00	16,20	13,70	6,50		
	MAXIMUM TEMPERATURE [°C]	RT				100	200	425	RT	100	200	400		
	MINIMUM TEMPERATURE [°C]					-29				-29				
CLASS		300#				300#								
OPERATING CONDITIONS 300# ASME B16.5	PS [bar]	51,10				46,60	43,80	28,80	49,60	42,20	35,70	29,40		
	MAXIMUM TEMPERATURE [°C]	RT				100	200	425	RT	100	200	400		
	MINIMUM TEMPERATURE [°C]					-29				-29				

Additional restrictions:
 PN-16 DN 200 PMS-14 bar
 PN-40 DN 125 PMS-28 bar
 PN-40 DN 150 PMS-21 bar
 PN-40 DN 200 PMS-14 bar



Isometric view DN-15

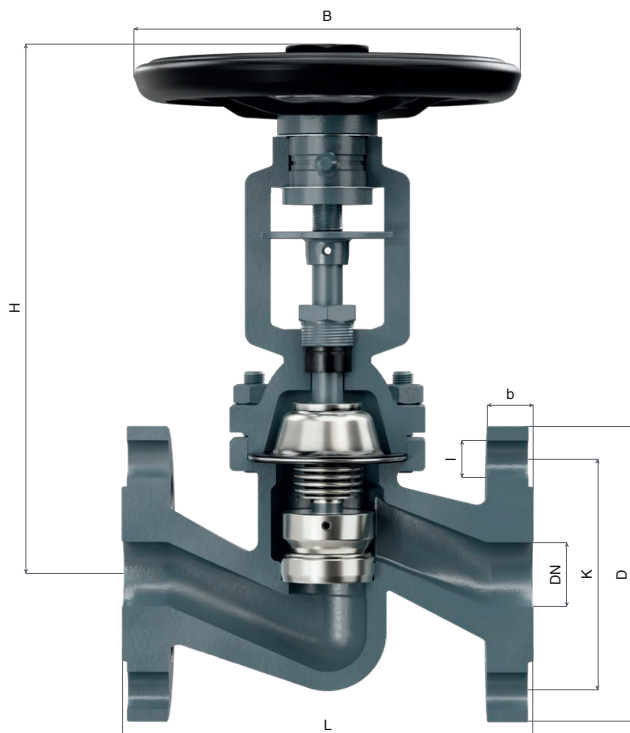


Exploded view DN-15

- (1) Balanced plug for DN 200 versions in Cast Steel and Stainless Steel.
 (2) Guided plug for DN 150 and DN 200 versions in Cast Steel and Stainless Steel.

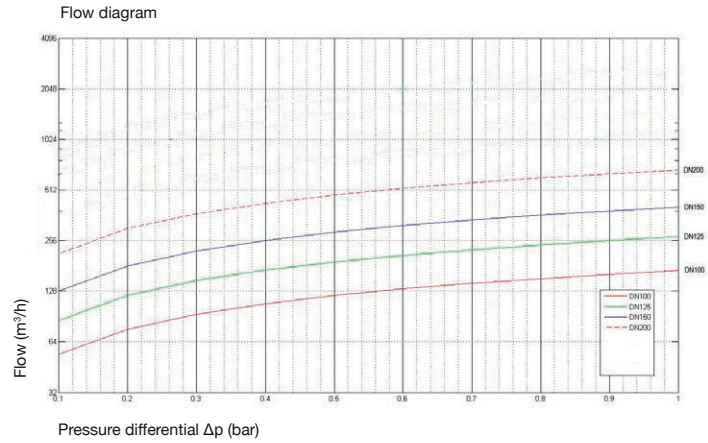
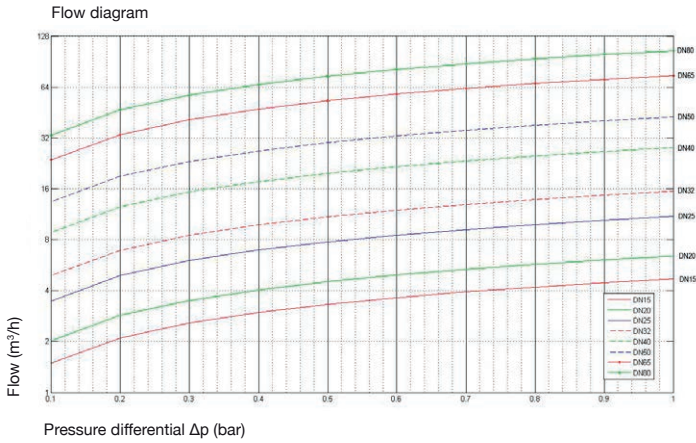
RT: Room Temperature (-10 °C to 50 °C).

MODEL		248																							
DN	15	20	25	32	40	50																			
NPS	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"																			
CONNEXIONS	I - Flanges PN-16 EN 1092-2																								
	II - Flanges PN-40 EN 1092-1																								
	III - Flanges Class 150 lbs ASME / ANSI B16.5																								
	IV - Flanges Class 300 lbs ASME / ANSI B16.5																								
H [PN16, PN40]	192	192	207	207	245	253																			
H [class 150 lbs and 300 lbs]	240	240	256	267	325	*315/**348																			
L EN-558 [PN-16, PN40]	130	150	160	180	200	230																			
L ASME B16.10 [150 lbs]	108	117	127	140	165	203																			
L ASME B16.10 [300 lbs]	152	178	203	216	229	267																			
B [mm]	140	140	160	160	180	200																			
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	
D [mm]	95	95	90	95	105	105	100	115	115	115	110	125	140	140	115	135	150	150	125	155	165	165	150	165	
K [mm]	65,00	65,00	60,30	66,70	75,00	75,00	69,90	82,60	85,00	85,00	79,40	88,90	100,00	100,00	88,90	98,40	110,00	110,00	98,40	114,30	125,00	125,00	120,70	127,00	
l [mm]	14,00	14,00	15,90	15,90	14,00	14,00	15,90	19,10	14,00	14,00	15,90	19,10	18,00	18,00	15,90	19,10	18,00	18,00	15,90	22,20	18,00	18,00	19,10	19,10	
b [mm]	16,00	16,00	11,20	14,30	18,00	18,00	12,70	15,90	18,00	18,00	14,30	17,50	18,00	18,00	15,90	19,10	18,00	18,00	17,50	20,70	18,00	20,00	19,10	22,30	
SCREWS N°	4				4				4				4				4				8				
WEIGHT [kg]	NODULAR IRON	3,80	-	-	4,40	-	-	-	5,60	-	-	-	7,10	-	-	-	9,10	-	-	-	11,80	-	-		
	CAST STEEL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	STAINLESS STEEL	4,20	4,00	5,00	4,80	6,00	7,00	6,20	8,00	10,00	7,80	12,00	14,00	10,00	16,00	19,00	13,00	21,00	26,00						
CODE 2005-248.	NODULAR IRON	5026	-	-	-	5346	-	-	-	5106	-	-	-	5146	-	-	-	5126	-	-	-	5206	-	-	
	CAST STEEL	-	8024	80241	80242	-	8344	83441	83442	-	8104	81041	81042	-	8144	81441	81442	-	8124	81241	81242	-	8204	82041	82042
	STAINLESS STEEL	-	8022	80221	80222	-	8342	83421	83422	-	8102	81021	81022	-	8142	81421	81422	-	8122	81221	81222	-	8202	82021	82022
MODEL		248																							
DN	65	80	100	125	150	200																			
NPS	2 1/2"	3"	4"	5"	6"	8"																			
CONNEXIONS	I - Flanges PN-16 EN 1092-2																								
	II - Flanges PN-40 EN 1092-1																								
	III - Flanges Class 150 lbs ASME / ANSI B16.5																								
	IV - Flanges Class 300 lbs ASME / ANSI B16.5																								
H [PN16, PN40]	295	328	385	427	480	672																			
H [class 150 lbs and 300 lbs]	330	380	405	455	513	683																			
L EN-558 [PN-16, PN40]	290	310	350	400	480	600																			
L ASME B16.10 [150 lbs]	216	241	292	356	406	495																			
L ASME B16.10 [300 lbs]	292	318	356	400	444	559																			
B [mm]	220	250	300	350	400	450																			
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	
D [mm]	185	185	180	190	200	200	190	210	220	235	230	255	250	270	255	280	285	300	280	320	340	375	345	380	
K [mm]	145,00	145,00	139,70	149,20	160,00	160,00	152,40	168,30	180,00	190,00	190,50	200,00	210,00	220,00	215,90	235,00	240,00	250,00	241,30	269,90	295,00	320,00	298,50	330,20	
l [mm]	18,00	18,00	19,10	22,20	18,00	18,00	19,10	22,20	18,00	22,00	19,10	22,20	18,00	26,00	22,20	22,20	22,00	26,00	22,20	22,20	22,00	30,00	22,20	26,00	
b [mm]	18,00	22,00	22,30	25,40	20,00	24,00	23,90	28,60	20,00	24,00	23,90	31,80	22,00	26,00	23,90	35,00	22,00	28,00	25,40	36,60	24,00	34,00	28,60	41,70	
SCREWS N°	4	8	4	8	8	4	8	8	8	8	8	8	8	8	8	8	8	8	12	12	8	12	8	12	
WEIGHT [kg]	NODULAR IRON	20,80	-	-	27,00	-	-	-	39,10	-	-	-	54,60	61,90	-	-	78,70	85,10	-	-	157,00	164,30	-		
	CAST STEEL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	STAINLESS STEEL	22,80	29,00	38,00	29,70	35,00	51,00	43,00	58,00	76,00	60,00	68,00	78,00	125,00	86,50	93,50	104,00	173,00	172,50	180,50	162,00	297,00			
CODE 2005-248.	NODULAR IRON	5226	-	-	-	5306	-	-	-	5406	-	-	-	5506	-	-	-	5606	-	-	-	5806	-	-	
	CAST STEEL	-	8224	82241	82242	-	8304	83041	83042	-	8404	84041	84042	-	8504	85041	85042	-	8604	86041	86042	-	8804	88041	88042
	STAINLESS STEEL	-	8222	82221	82222	-	8302	83021	83022	-	8402	84021	84022	-	8502	85021	85022	-	8602	86021	86022	-	8802	88021	88022



FLOW COEFFICIENT EN 60534-2-3 [Water at 20 °C]

DN	15	20	25	35	40	50	65	80	100	125	150	200
Kvs m ³ /h Δp = 1 bar	4,70	6,80	11,40	16,30	28,00	43,50	74,00	109,00	172,00	277,00	408,00	708,00



Specifications

- Design and manufacture compliant with EN 13709.
- Distances between flanges compliant with EN 558 series 1 and ASME B16.10.
- Flanges compliant with EN 1092-1, EN 1092-2 and ASME B16.5.
- Designed to be environmentally friendly.
- Materials carefully selected for wear, temperature and corrosion resistance.
- Valve free from silicones and asbestos.
- Simple construction.
- Easy installation with mounting possible at any position between 270° and 90°.
- Internal body designed to offer favourable flow profile.
- Long life cycle with high operating efficiency.
- Practically maintenance-free.
- Spindle with opening indicator, torque limiter and greasing nipple.
- Spindle with external thread which allows higher working temperatures and a longer service life.
- Safety seals with high-quality graphite rings. They guarantee total prevention of atmospheric emissions in the unlikely event of a bellows breakage. This is a requirement of DIN Standard 4754 in thermal fluid installations.
- Removable gasket designed to avoid the transmission of vibration to the valve's spindle.
- Double-walled bellows, robust, welded to the spindle forming a water-tight assembly, next to the seal and disc, without any possibility of rotation so as to avoid breakages. The bellows disc is concave and joined to the bellows. This saves energy and contributes to the area round the valve handle being at a suitable temperature for operator safety.
- Stainless steel bellows welded to the plasma. Airtightness tested with helium, ensuring absolute reliability and long life.
- Reinforced support guide in a bridge design which provides thermal insulation.
- Ergonomic handle with protective cap for the spindle.
- In accordance with the safety specifications, the valve is an inseparable part of the set. When attaching the valve to any point of opening or closure, external blocking systems must be used, and the handwheel must never be dismantled.
- Treated closing surfaces, which are grinded, lapped and burnished in order to achieve a degree of leak-tightness that even exceeds that required by EN 12266-1 class A.
- All the valves are rigorously tested and verified.
- All components are numbered, registered and checked. If requested in advance, material, casting, test and efficiency certificates will be enclosed with the valve, and with the instruction manual, in accordance with P.E.D. 2014/68/EU.

IMPORTANT

We recommend, if necessary, the use of thermal and acoustic insulation textile jackets Model 008.

On order:

- Option for manufacturing in other materials for special working conditions (high temperatures, fluids, etc).
- Other connections.
- Plug with regulating cone.
- Soft Plug.



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