

INDEX OF INDUSTRIAL VALVES

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STOP VALVE



figure	215
ends form	flange straight



body material	nominal pressure	nominal diameter	max temperature
A grey cast iron	A 6 bar C 16 bar	DN 15-300	300°C
C nodular cast iron	C 16 bar D 25 bar	DN 15-200	350°C
E bronze	C 16 bar B 10 bar A 6 bar	DN 15-125 DN 150-200 DN 250-300	225°C
F cast steel	E 40 bar	DN 15-150 *	400°C

* DN 200 on request



correspond to the pressure equipment directive 97/23/EC
marking CE for DN≥32

Features:

- high tightness (leakproofness class - A acc. EN -12266 - 1)
- compact settlement
- environment-friendly
- tests acc. EN - 12266 - 1
- flanges drilled according to EN 1092-2 for body material A, C, E
- flanges drilled according to EN 1092-1 for body material F
- face-to-face dimension according to EN 558-1 series 1

Aplications

- hot cold and cooling water plants
- steam plants
- industrial technologies
- heat engineering
- power engineering

STOP VALVE



figure	216
ends form	flange angle



body material	nominal pressure	nominal diameter	max temperature
A grey cast iron	A 6 bar C 16 bar	DN 15-300	300°C
C nodular cast iron	C 16 bar D 25 bar	DN 15-200 DN 15-80	350°C
E bronze	C 16 bar B 10 bar A 6 bar	DN 15-125 DN 150-200 DN 250-300	225°C



correspond to the pressure equipment directive 97/23/EC
marking CE for DN≥32

Features:

- high tightness (leakproofness class - A acc. EN -12266 - 1)
- compact settlement
- environment-friendly
- tests acc. EN - 12266 - 1
- flanges drilled according to EN 1092-2
- face-to-face dimension according to EN 558 series 8

Aplications

- hot cold and cooling water plants
- steam plants
- industrial technologies
- heat engineering
- power engineering

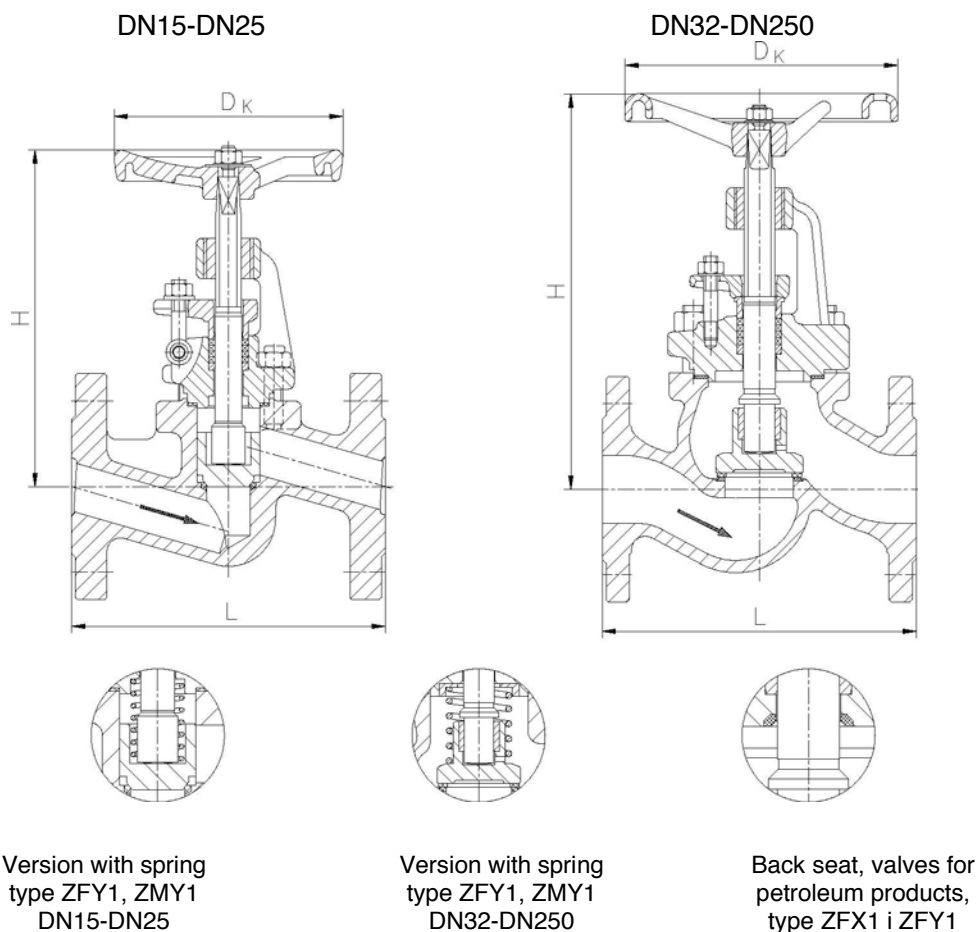
STRAIGHT PATTERN STOP-CHECK VALVES PN 40

WITH HAND WHEEL FLANGED AND WITH BUTT WELD ENDS

DN15-DN250

The valves are designed for application in pipeline installations conducting non-aggressive and non-toxic media. They are manufactured in following versions:

- without spring - for naval application: type **ZMX1**
- without spring - for petroleum products: type **ZFX1**
- with spring - for naval application: type **ZMY1**
- with spring - for petroleum products: type **ZFY1**.



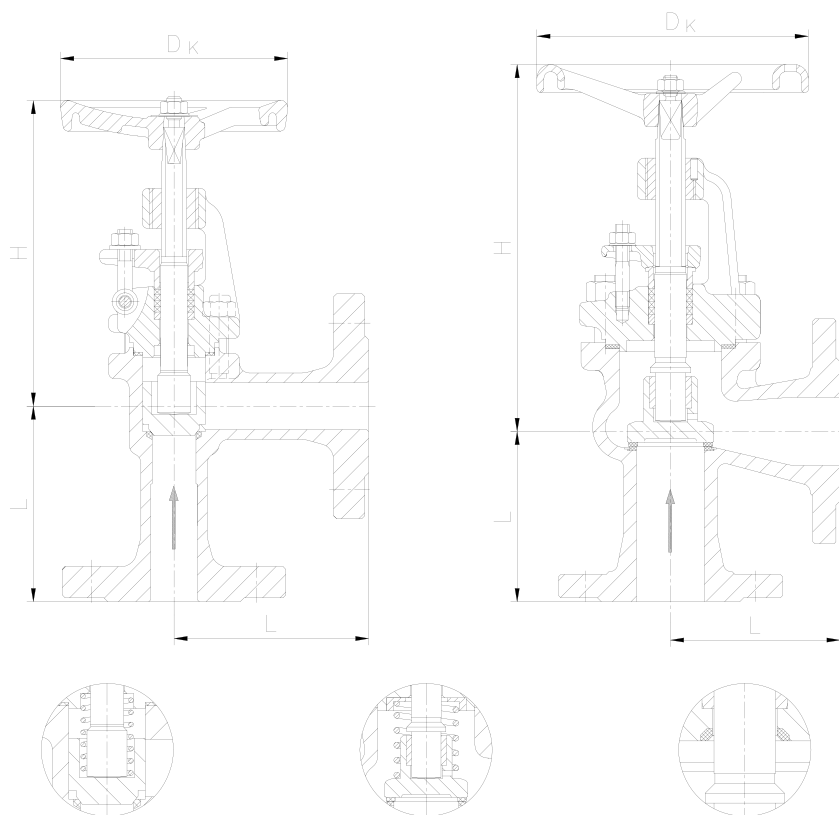
Materials:

Body:	DN 15 ÷ 25	carbon steel
	DN 32 ÷ 250	carbon cast steel
Bonnet:	DN 15 ÷ 65 and 250	carbon steel
	DN 80 ÷ 200	carbon cast steel
Trim:		stainless steel (min.18%Cr)
Packing:		reinforced graphite

ANGLE PATTERN STOP-CHECK VALVES PN 40 WITH HAND WHEEL FLANGED AND WITH BUTT WELD ENDS DN15-DN200

The valves are designed for application in pipeline installations conducting non-aggressive and non-toxic media. They are manufactured in following versions:

- without spring, for petroleum products: type **ZEX1**
- without spring, for naval application: type **ZCX1**
- with spring, for petroleum products: type **ZEY1**
- with spring, for naval application: type **ZCY1**



Version with spring
type ZCY1, ZEY1
DN15-DN25

Version with spring
type ZCY1, ZEY1
DN32-DN200

Back seat, valves for
petroleum products,
type ZEX1 and ZEY1

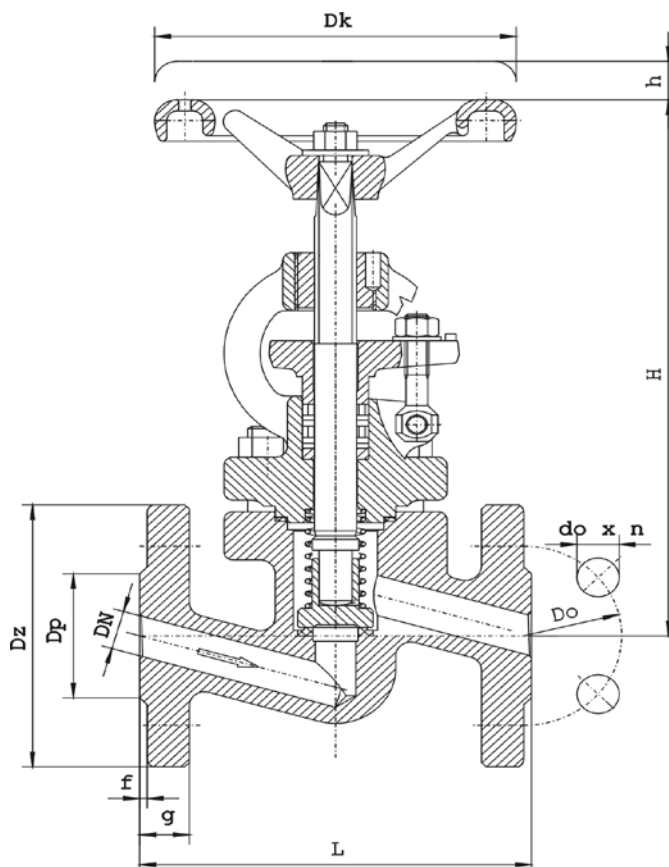
Materials:

Body:	carbon cast steel
Bonnet:	carbon steel
DN 15 ÷ 65	carbon cast steel
DN 80 ÷ 200	stainless steel (min.18%Cr)
Trim:	reinforced graphite
Parking:	

SCREW DOWN NON - RETURN VALVE WITH FLANGES

CAT. NO. 465

ND 15÷25 / NP 4,0 MPA / TMAX= 450°C



Dimensions:

ND	Dz	Dp	D ₀	d ₀ x n	L	f	g	H	h	D _k	Weight
mm											kg
15	95	45	65	14 x 4	130	2	16	185	11	120	4,60
20	105	58	75	14 x 4	150	2	18	185	11	120	5,30
25	115	68	85	14 x 4	160	2	18	185	11	120	6,00

* for stainless steel performance (A) Tmax for material **1.4571 (X6CrNiMoTi17-12-2)**: -196°C up to +300°C

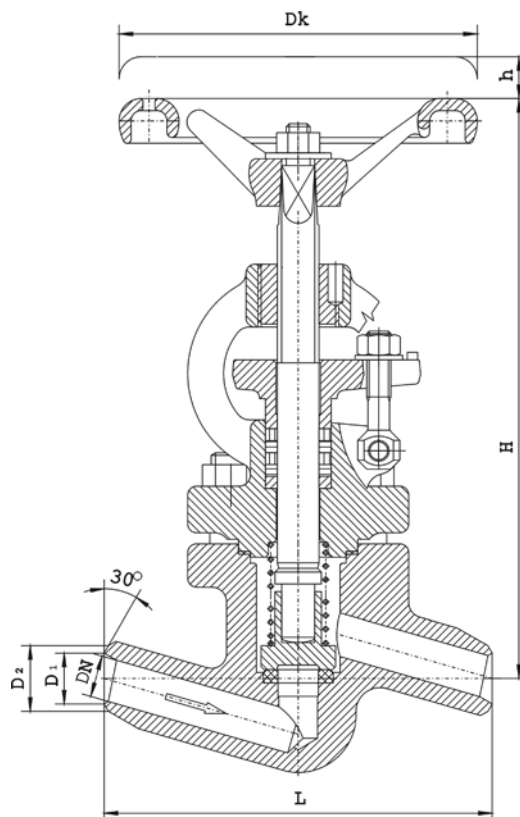
Materials:

Description	Material		
	standard	for marine service	for stainless steel
Body	P250GH	P250GH	X6CrNiMoTi17-12-2
Body seat	18-8 Cr-Ni	18-8 Cr-Ni	X6CrNiMoTi17-12-2
Bonnet	P250GH	P250GH	X6CrNiMoTi17-12-2 (X6CrNiTi18-10)
Stem	X30Cr13	X17CrNi16-2	18-8 Cr-Ni
Disc seat	18-8 C r-Ni	18-8 Cr-Ni	18-8 Cr-Ni
Packing	Graphite	Graphite	Graphite

SCREW DOWN NON -RETURN VALVE WELDING ENDS

CAT. NO. 465S

ND 15÷50 / NP 4,0 MPA / TMAX= 450°C



Dimensions:

ND	D ₂	D ₁	L	H	h	D _K	Weight
mm							
							kg
15	22	17	130	185	11	120	2,2
20	28	22	130	185	11	120	2,8
25	34	28	130	185	11	120	3,3
32	43	37	160 (180**)	260	11	160	7,2
40	49	43	180 (200**)	270	14	160	8,0
50	61	54	210 (230**)	270	18	160	12,4

* for stainless steel valves (A) Tmax for material 1.4571 (X6CrNiMoTi17-12-2): -196°C up to +300°C [DN 15-25]; (1.4408 (GX5CrNiMo19-11-2) up to +250°C [DN 32-300]; ** Face to face dimension acc. to PN-EN 12892 - on Customer's request

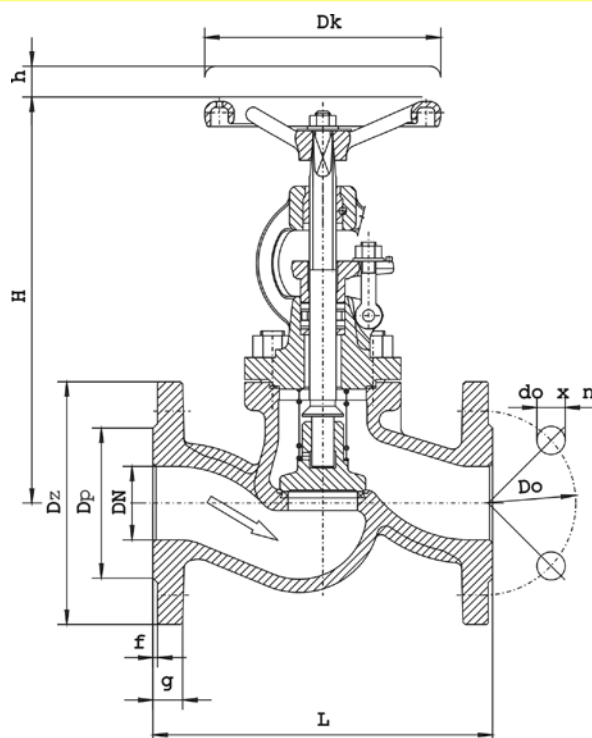
Materials:

Description	Material		
	standard	for marine service	For stainless steel
Body - ND 15-25 - ND 32-50	P250GH	P250GH	X6CrNiMoTi17-12-2 GX5CrNiMo19-11-2
Body seat - ND 15-25 - ND 32-50	18-8 Cr-Ni	18-8 Cr-Ni	X6CrNiMoTi17-12-2 GX5CrNiMo19-11-2
Bonnet	P250GH	P250GH	X6CrNiMoTi17-12-2 (X6CrNiTi18-10)
Stem	X30Cr13	X17CrNi16-2	18-8 Cr-Ni
Disc seat	18-8 C r-Ni	18-8 Cr-Ni	18-8 Cr-Ni
Packing	Graphite	Graphite	Graphite

SCREW DOWN NON - RETURN VALVE WITH FLANGES

CAT. NO. 468

ND 15÷300 / NP 4,0 MPA / TMAX= 450°C



Dimensions:

ND	D _z	D _p	D ₀	d ₀ x n	L	f	g	H	h	D _K	Weight
mm											kg
15	Interchangeably the valves acc. to leaflet no 039 (SDNR valve Cat. no 465)										
20											
25											
32	140	78	100	18 x 4	180	2	18	260	10	160	11,0
40	150	88	110	18 x 4	200	2	18	270	12	160	12,3
50	165	102	125	18 x 4	230	2	20	280	16	160	16,0
65	185	122	145	18 x 8	290	2	22	320	16	200	27,5
80	200	138	160	18 x 8	310	2	24	370	20	250	36,0
100	235	162	190	22 x 8	350	2	24	402	25	320	52,0
125	270	188	220	26 x 8	400	2	26	436	40	320	60,0
150	300	218	250	26 x 8	480	2	28	496	45	360	86,0
200	375	285	320	30 x 12	600	2	34	576	60	400	175,0
250	450	345	385	33 x 12	730	2	38	665	65	500	326,0
300	515	410	450	33 x 16	850	2	42	777	160	640	

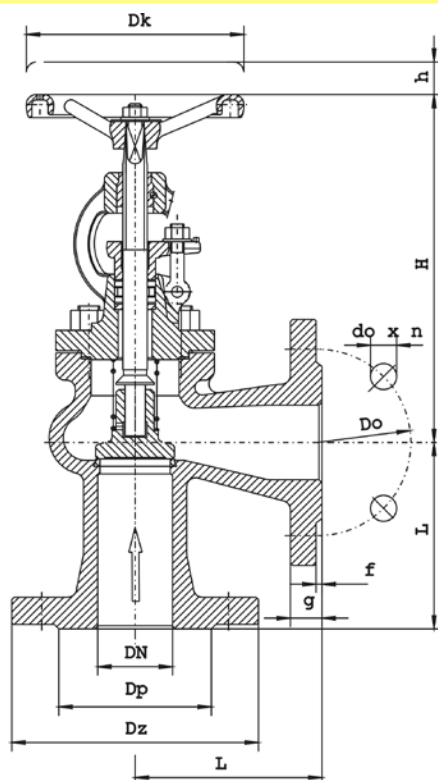
Materials:

Description	Material		
	standard	for marine service	for stainless steel
Body	GP240GH	GP240GH	GX5CrNiMo19-11-2
Seat Body	18-8 Cr-Ni	18-8 Cr-Ni	GX5CrNiMo19-11-2
Bonnet			
- ND 15-50	P250GH	P250GH	X6CrNiMoTi17-12-2
- ND 65-300	GP240GH	GP240GH	X6CrNiTi18-10 GX5CrNiMo19-11-2
Stem	X30Cr13	X17CrNi16-2	X6CrNiTi18-10
Disc seat			
- ND 15-50	X30Cr13	X17CrNi16-2	18-8 Cr-Ni
- ND 65-80	X30Cr13	18-8 Cr-Ni	18-8 Cr-Ni
- ND 100-300	18-8 C r-Ni	18-8 Cr-Ni	18-8 Cr-Ni
Packing	Graphite	Graphite	Graphite

SCREW DOWN NON - RETURN VALVE WITH FLANGES

CAT. NO. 333 - ANGLE FORM

ND 15÷250 / NP 4,0 MPA / TMAX= 450°C



Dimensions:

ND	Dz	Dp	D0	d0 x n	L	f	g	H	h	Dk	Weight
mm											kg
15	95	45	65	14 x 4	90	2	16	170	12	120	4,1
20	105	58	75	14 x 4	95	2	18	170	12	120	4,7
25	115	68	85	14 x 4	100	2	18	170	12	120	4,9
32	140	78	100	18 x 4	105	2	18	240	10	160	10,6
40	150	88	110	18 x 4	115	2	18	250	12	160	13,6
50	165	102	125	18 x 4	125	2	20	265	16	160	16,0
65	185	122	145	18 x 8	145	2	22	290	16	200	28,0
80	200	138	160	18 x 8	155	2	24	320	20	250	37,0
100	235	162	190	22 x 8	175	2	24	350	25	320	48,0
125	270	188	220	26 x 8	200	2	26	390	40	320	59,2
150	300	218	250	26 x 8	225	2	28	440	45	360	75,5
200	375	285	320	30 x 12	275	2	34	515	60	400	152,5
250	450	345	385	33 x 12	325	2	38	540	65	500	253,0

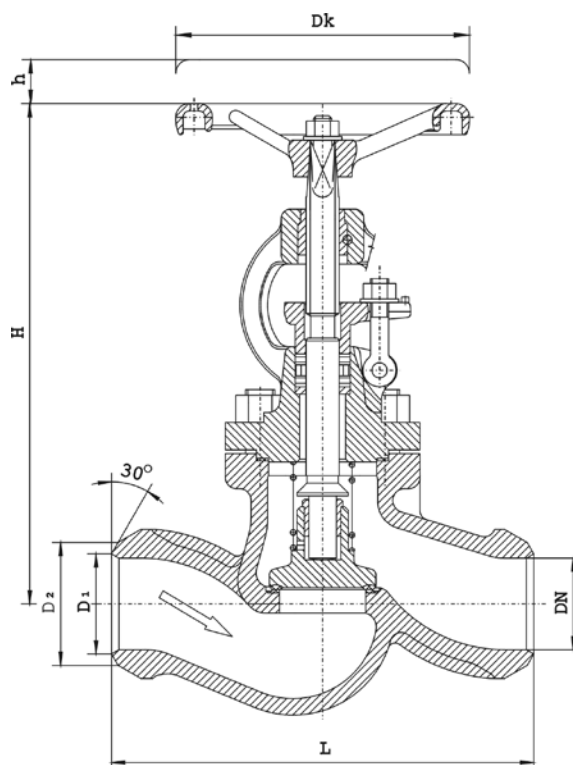
Materials:

Description	Material	
	standard	for marine service
Body	GP240GH	GP240GH
Seat Body	18-8 Cr-Ni	18-8 Cr-Ni
Bonnet	GP240GH	GP240GH
Stem	X30Cr13	X17CrNi16-2
Disc seat		
- ND 15-50	X30Cr13	X17CrNi16-2
- ND 65-80	X30Cr13	18-8 Cr-Ni
- ND 100-250	18-8 Cr-Ni	18-8 Cr-Ni
Packing	Graphite	Graphite

SCREW DOWN NON - RETURN VALVE WITH BUTT-WELDING ENDS

CAT. NO. 468S

ND 15÷250 / NP 4,0 MPA / TMAX= 450°C

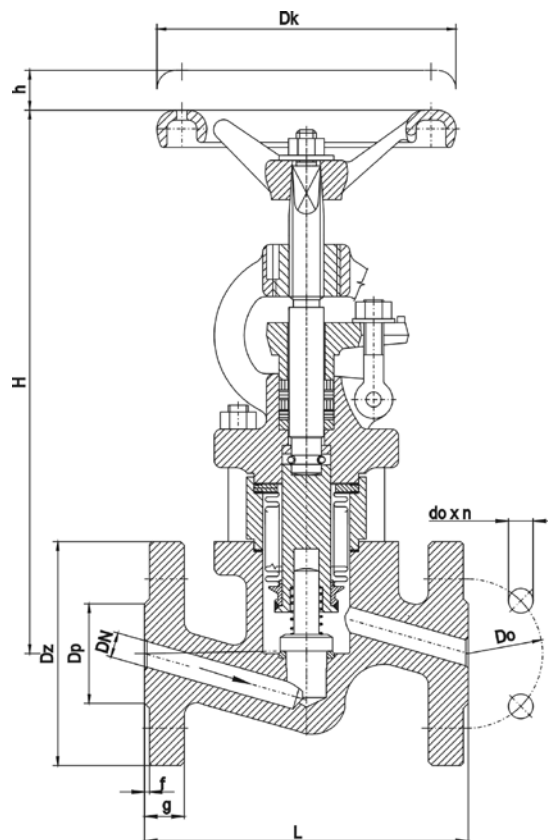

Dimensions:

ND	D ₁	D ₂	L	H	h	D _k	Weight kg
mm							
15	Interchangeably the valves acc. to leaflet no 040 (SDNR valve Cat. no 465S)						
20							
25							
32							
40							
50							
65	70	83	290	320	25	200	21,4
80	82	96	310	370	27	250	26,0
100	105	121	350	405	37	320	50,0
125	132	147	400	436	58	320	63,0
150	159	176	480	496	70	360	91,0
200	208	228	600	576	92	400	172,0
250	257	282	730	665	110	500	176,0
300	325	331	850	777	160	640	

Materials:

Description	Material		
	standard	for marine service	for stainless steel
Body	GP240GH	GP240GH	GX5CrNiMo19-11-2
Seat Body	18-8 Cr-Ni	18-8 Cr-Ni	GX5CrNiMo19-11-2
Bonnet			X6CrNiMoTi17-12-2
- ND 32-50	P250GH	P250GH	(X6CrNiTi18-10)
- ND 65-250	GP240GH	GP240GH	GX5CrNiMo19-11-2
Stem	X30Cr13	X17CrNi16-2	X6CrNiTi18-10
Disc seat			
- ND 32-50	X30Cr13	X17CrNi16-2	18-8 Cr-Ni
- ND 65-80	X30Cr13	18-8 Cr-Ni	18-8 Cr-Ni
- ND 100-300	18-8 C r-Ni	18-8 Cr-Ni	18-8 Cr-Ni
Packing	Graphite	Graphite	Graphite

GLOBE VALVE BELLOWS SEALED WITH FLANGES

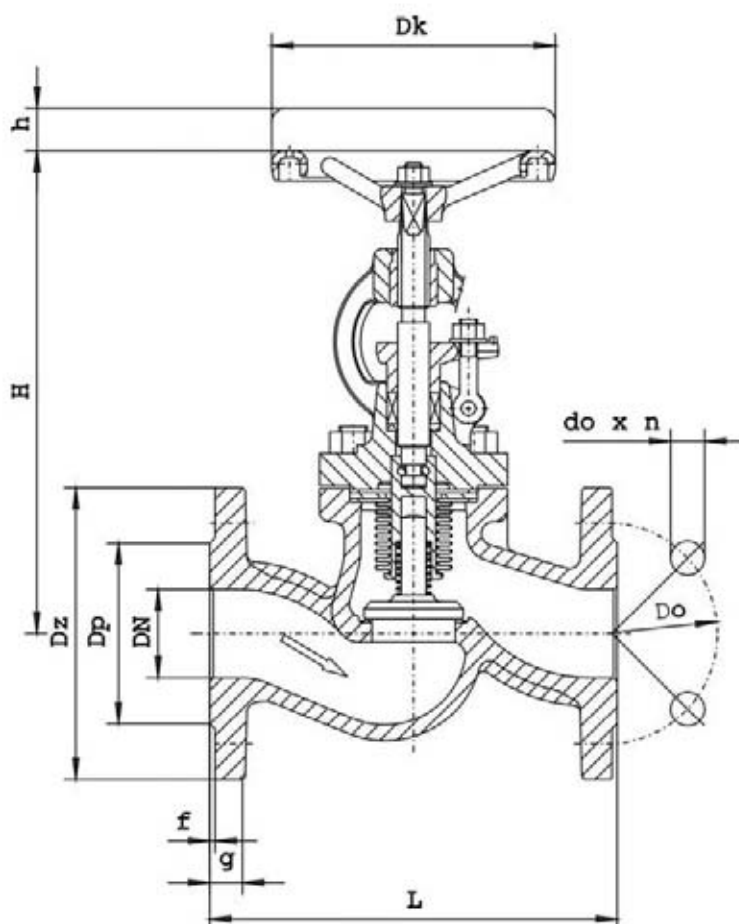
 CAT. NO. 465M - STRAIGHT FORM
 ND 15÷25 / NP 4,0 MPA / TMAX= 450°C

Dimensions:

ND	Dz	Dp	D ₀	d ₀ x n	L	f	g	H	h	D _K	Weight
mm											kg
15	95	45	65	14 x 4	130	2	16	215	8	120	5,0
20	105	58	75	14 x 4	150	2	18	215	8	120	5,5
25	115	68	85	14 x 4	160	2	18	215	8	120	6,0

Materials:

Description	Material	
	standard	Stainless steell
Body	P250GH	X6CrNiMoTi17-12-2
Body seat	18-8 Cr-Ni	X6CrNiMoTi17-12-2
Bonnet	P250GH	X6CrNiMoTi17-12-2 (X6CrNiTi18-10)
Stem	X30Cr13	X6CrNiTi18-10
Disc seat	18-8 C r-Ni	18-8 Cr-Ni
Bellow	18-8 Cr-Ni	18-8 Cr-Ni
Packing	Graphite	Graphite

SCREW DOWN NON-RETURN VALVE BELLOWS SEALED WITH FLANGES

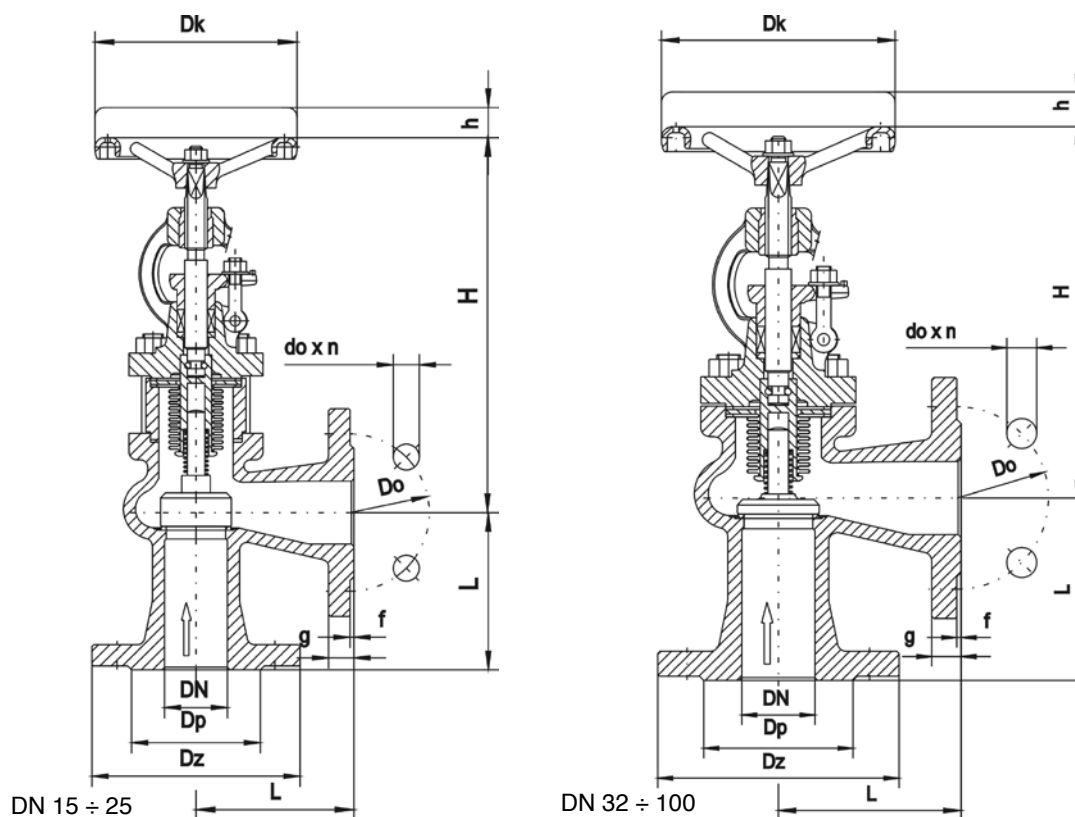
 CAT. NO. 468M - STRAIGHT FORM
 ND 15÷80/ NP 4,0 MPA / TMAX= 400°C

 * for stainless steel performance (A) Tmax for material; **1.4408** from -196°C up to +300° C

Materials:

Destription	Material		
	standard	for marine service	stainless steel
Body	1.0619	1.0619	1.4408
Body seat	18-8 CrNi	18-8 CrNi	18-8 CrNi
Bonnet - ND 15 - 50	1.0460	1.0460	1.4408
- ND 65 - 250	1.0619	1.0619	1.4408
Stem	13Cr	17Cr	18-8CrNi
Disc seat - ND 15 - 50	13Cr	17Cr	18-8CrNi
- ND 65 - 80	13Cr	18-8CrNi	- // -
Packing	Graphie	Graphite	Graphite

SCREW DOWN NON-RETURN VALVE BELLOWS SEALED WITH FLANGES

CAT. NO. 333M - ANGEL FORM
ND 15÷100/ NP 4,0 MPA / TMAX= 450°C



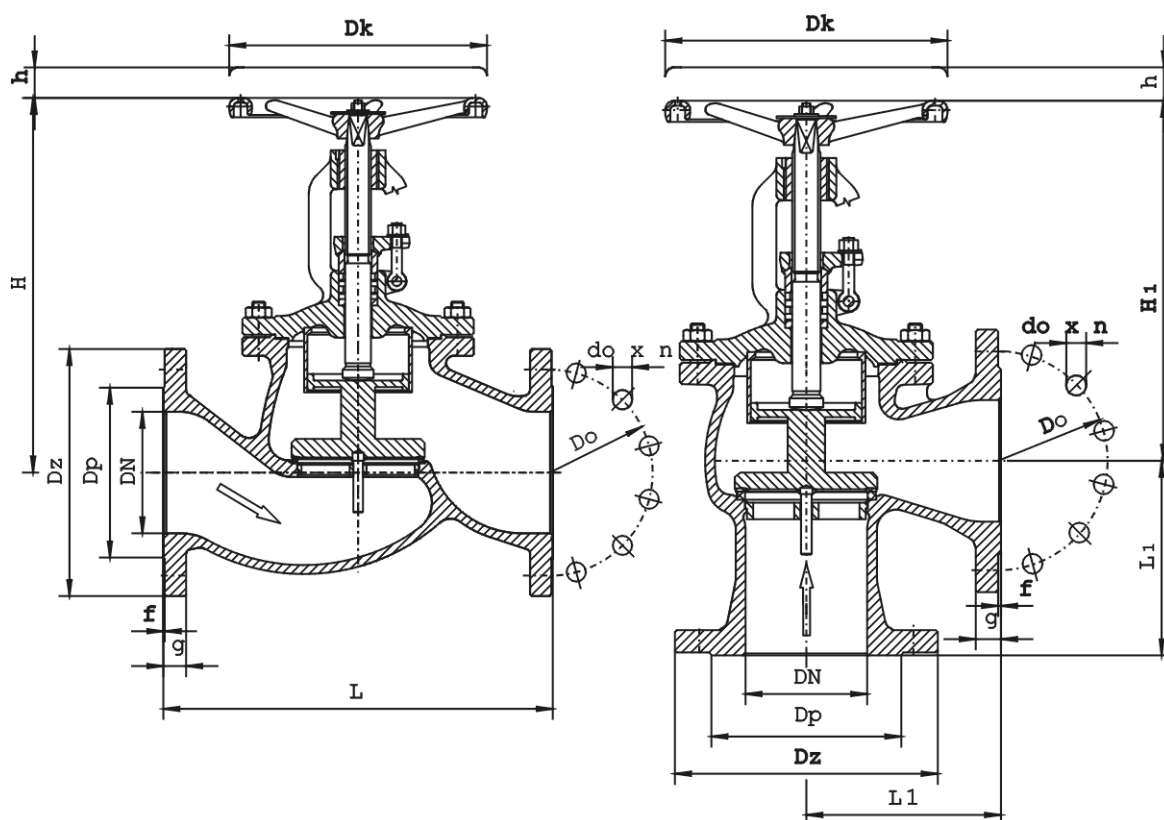
Dimensions:

ND	Dz	Dp	D0	d0 x n	L	f	g	H	h	Dk	Weight
mm											kg
15	95	45	65	14 x 4	90	2	16	214	8	100	4,1
20	105	58	75	14 x 4	95	2	18	214	8	100	4,7
25	115	68	85	14 x 4	100	2	18	214	8	100	4,9
32	140	78	100	18 x 4	105	2	18	240	10	160	10,6
40	150	88	110	18 x 4	115	2	18	250	13	160	13,6
50	165	102	125	18 x 4	125	2	20	255	15	160	16,0
65	185	122	145	18 x 8	145	2	22	290	15	200	28,0
80	200	138	160	18 x 8	155	2	24	320	18	250	37,0
100	235	162	190	22 x 8	175	2	24	460	35	320	50,0

Materials:

Description	Material	
	standard	for marine service
Body	GP240GH	GP240GH
Seat Body	18-8 Cr-Ni	18-8 Cr-Ni
Bonnet - ND 15-50 - ND 65-80	P250GH GP240GH	P250GH GP240GH
Stem	X30Cr13	X17CrNi16-2
Disc seat - ND 15-50 - ND 65-100	X30Cr13 X30Cr13	X17CrNi16-2 18-8 Cr-Ni
Bellow	18-8 Cr-Ni	18-8 Cr-Ni
Packing	Graphite	Graphite

SCREW DOWN NON-RETURN VALVE WITH DASHPOT
 CAT. NO. 468DP - STRAIGHT FORM, CAT. NO. 333DP - ANGLE FORM
 ND 65÷200/ NP 4,0 MPA / TMAX= 450°C

**Dimensions:**

ND	D _z	D _p	D ₀	d ₀ x n	L	L ₁	f	g	H	H ₁	h	D _K	Weight	
													Fig. 333DP	Fig. 468DP
mm													kg	
65	185	122	145	18 x 8	290	145	2	22	320	290	25	200	28,0	27,5
80	200	138	160	18 x 8	310	155	2	24	370	320	27	250	37,0	36,0
100	235	162	190	22 x 8	350	175	2	24	402	350	37	320	48,0	52,0
125	270	188	220	26 x 8	400	200	2	26	436	390	40	320	60,0	60,0
150	300	218	250	26 x 8	480	225	2	28	496	440	45	320	75,5	86,0
200	375	285	320	30 x 12	600	275	2	34	576	515	60	400	152,5	175,0

Materials:

Description	Material standard
Body	GP240GH
Body seat	18-8 Cr-Ni
Bonnet - ND 32-50 - ND 65-80	P250GH GP240GH
Stem	X30Cr13
Disc seat - ND 32-50 - ND 65-80	X30Cr13 X30Cr13
Bellow	18-8 Cr-Ni
Packing	Graphite