



+385 (051) 623-055, fax 623-066

E-mail : armature@somet.hr

www.armature.somet.hr

M. Balote 59, Rijeka, Croatia

SHIPBUILDING ARMATURES & FOUNDRY



SOMET d.o.o. is private company from Croatia.

We are consisted of 2 sister companies (of the same owners) that work together to cover all production steps needed to produce piping armatures.

Castings foundry

First company is ARDENS d.o.o. (<http://www.ardens.com.hr>) , and production programe of that *foundry company* are metal castings.

We are casting non ferrous metals (bronze, alluminium) and also cast iron and nodular cast iron. Currently we are installing production of cast steel.

Besides piping armatures, our foundry has many different customers, for example :

- producers of main ships engines
 - producers of auxillary ships engines
 - producers of propellers
 - producer of auxillary power engines for nuclear power plants in Russia
 - producers of special transformers for electro distribution
 - ... and many others ...

For many of our customers, we are supplying not only raw castings, but also finished machined parts. For example we are supplying finished casted parts for auxillary ships engines, for nuclear power plants engines, for electro distribution transformers ...

Feel free to make inquiries for any type of castings, not only intended for marine industry.

Piping armatures production

Second company is SOMET d.o.o. (<http://www.armature.somet.hr>) , and operation of that company are *piping armatures production*. About 90% of production are casted piping armatures, and the rest are welded armatures.

We are a leading supplier of piping armatures for Croatian shipyards.

Our production programme is quite wide and we can say that we are at first a «bronze specialists», but we cover other materials as well. Our production covers casted armatures from bronze, cast iron, nodular cast iron and cast steel. Welded armatures are from steel and stainless steel.

All of our products can be inspected by major certification organizations, like Lloyds register, DNV, Bureau Veritas, RINA, Germanischer Lloyds, HRB, etc.

We are producing armatures of dimensions according to DIN and EN, but also to other standards like ANSI.

Sub-contracting

Besides our own production programme, we are also producing custom products with «customer brands». So at the moment you can find products made in our company as a sub-contractor for companies operating in northern Europe market and Russia. We are producing only parts, but mostly we are producing complete products with customers branding.

To be able to make customer branding, we must note that our foundry has very modern capabilities of pattern production, so that we can develop all needed parts in our own house.

PRODUCTION FACILITY



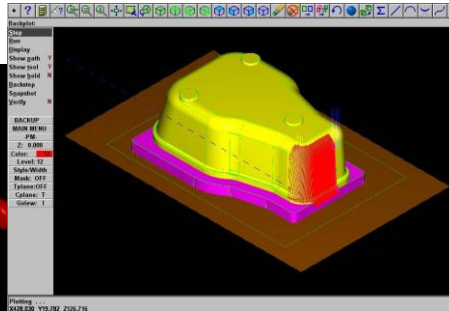
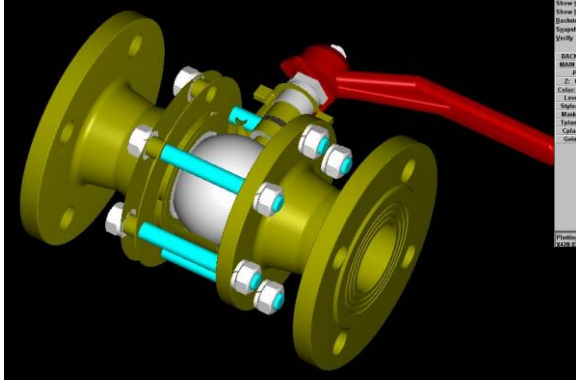
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E-mail : armature@somet.hr

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M. Balote 59, Rijeka, Croatia

CAD-CAM design



Pattern production



Castings foundry



CNC machining



Classical machining



Assembly & control



CERTIFICATES



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M. Balote 59, Rijeka, Croatia

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Certificate number: SMS.W.II/5337/A.0

www.veristar.com

RECOGNITION FOR BV MODE II SCHEME

SOMET d.o.o.
Rijeka - CROATIA

Summary of the range of the recognition which is detailed in the subsequent page(s):
MACHINING AND ASSEMBLING OF VARIOUS TYPES OF VALVES AND FITTINGS

This certificate is issued to attest that BUREAU VERITAS has performed, at the above company's request and in compliance with the requirements of ISO 9001, a satisfactory assessment of the manufacturing facilities and associated quality procedures related to the range of the recognition.

This certificate will expire on: 07 Mar 2016

For BUREAU VERITAS,
At BV RIJEKA, on 18 Apr 2012,
Branko VISKOVIC

Branko Viskovic



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristar.com/veristar/bv/viewPublicPdfRecognition.jsp?id=thysert5h>
BV Mod. Ad.E 697 May 2009

This certificate consists of 2 page(s)

ПОДСИЩЕННЫЙ ЗАПИСНОЙ РЕГИСТР СУДОСТРОИТЕЛЯ
RUSSIAN MARITIME REGISTER OF SHIPBUILDING

6.8.3

СВИДЕТЕЛЬСТВО О ТИПОВОМ ОДОБРЕНИИ
TYPE APPROVAL CERTIFICATE

Изготовитель
Manufacturer: **SOMET d.o.o.**

Адрес
Address: **SOMET d.o.o., Rijeka, Mate Balote 59, CROATIA**

Наименование
Product: **Устройства пожарного крана (прямой и угловой)**
Fire fighting and deck washing (straight & angle) valves

Код изделия/Классификация
Code of nomenclature: **06830100**

На основании освидетельствования и проведенных испытаний удостоверяется, что автоматическое устройство (а) удовлетворяет(ют) требованиям Российского морского регистра судоостроения.
This is to certify that on the basis of the survey and tests carried out the above mentioned article(s) comply(ies) with the requirements of Russian Maritime Register of Shipping.

Удостоверяется, что устройство соответствует VII и IX Правилам классификации и постройки морских судов (сод. 2010) Compliance with requirements of parts VII and IX Rules for the classification and construction of sea-going ships.

Настоящее Свидетельство о типовом одобрении действительно до: **13.12.2016**
This Type Approval Certificate is valid until: **13.12.2016**

Настоящее Свидетельство о типовом одобрении имеет силу с вступлением в силу Правил классификации и постройки морских судов (сод. 2010) и вступает в силу с вступлением в силу Правил классификации и постройки морских судов (сод. 2010).
This Type Approval Certificate becomes valid from the date of the entry into force of the Rules for the Classification and Construction of Sea-Going Ships and the Rules for the Classification and Construction of Sea-Going Ships (containing 2010).

Дата выдачи
Date of issue: **13.12.2011**

Подпись/Подпись
Signature: **Иванов И.И./Ivanov I.I.**

Подпись/Подпись
Signature: **Иванов И.И./Ivanov I.I.**

TYPE APPROVAL CERTIFICATE No. MAC 074508CS



This is to certify that the product identified below satisfies the requirements of the standard quoted under "Reference standard"

Description	Level gauges
Type	GLASS TYPE LEVEL INDICATOR
Application	SISMT252
Manufacturer	SOMET D.O.O.
Place of manufacture	M. BALOTE 59, 51000 RIJEKA CROATIA
Reference standards	SOMET D.O.O. M. BALOTE 59, 51000 RIJEKA CROATIA
Reference documents	RINA RULES FOR THE CLASSIFICATION OF SHIPS
	RINA TYPE APPROVAL SYSTEM

Issued in Genova on April 7, 2008. This Certificate is valid until April 6, 2013



Francesco Solecca

This certificate consists of this page and 1 enclosure

Per la Scelta per tutti
02-70922-21 - 04123 Service
T1 - 79 013 5686
Fax - 55 212 489991

HRVATSKI REGISTAR BRODOVA

Croatian Register of Shipping



POTVRDA O ODOBRENJU PROIZVOĐAČA CERTIFICATE OF APPROVAL OF THE MANUFACTURER

Br. Za: 01-005693/01476

Potvrđuje se da je ovaj proizvođač u skladu s Pravilima o izradi namjeru promjena broda. Ovo je prvi put. Odstupak 4. (Materijal proizvođača i ostali materijali, odobrenje za proizvodnju proizvoda koji se upotrebljavaju na brodovima) potpisuje potpisovatelj. Proizvođač potvrđuje da su svi materijali i ostali materijali, odobrenje za proizvodnju proizvoda koji se upotrebljavaju na brodovima, potpisuje potpisovatelj. Proizvođač potvrđuje da su svi materijali i ostali materijali, odobrenje za proizvodnju proizvoda koji se upotrebljavaju na brodovima, potpisuje potpisovatelj.

PROIZVOĐAČ:
SOMET d.o.o.

SOMET d.o.o.
Mate Balote 59
51000 RIJEKA
HRVATSKA - CROATIA

PROIZVOĐAČ:
SOMET d.o.o.

Proizvodnja protupožarnih ventila, te ostalih ventila i armature.
Manufacture of fire valves and other valves and fittings.

ODOBRENE VRIJEDNOŠĆI:
2010-12-13

Mjesto izdavanja:
Split, 2005-2-13



IZJAVLJUJE NAVEDENE NA POLEDINI
SUBJECT TO CONDITIONS ON FILED IN

Goran Begović, dipl.ing.

Section «A» - globe valves with flange connections

A-1.....Straight valve, screw down, code 26SMT77 (NP 6) and 26SMT83 (NP16)

A-2.....Angle valve, screw down, code 26SMT78 (NP6) and 26SMT84 (NP16)

A-3.....Straight valve, screw down non-return code 26SMT79 (NP6) and 26SMT85 (NP16)

A-4.....Angle valve, screw down non-return code 26SMT80 (NP6) and 26SMT86 (NP16)

Section «B» - check valves

B-1.....Straight check valve, code 26SMT81 (NP 6) and 26SMT87 (NP16)

B-2.....Angle check valve, code 26SMT82 (NP 6) and 26SMT88 (NP16)

B-3.....Wafer check valve, swing type

Section «C» - suction basket

C-1.....Suction basket with non-return valve, code 27SMT83 (NP 6)

Section «D» - firefighting armatures

D-1..... Firefighting and dechwash valve NP16, code 84SMT67 (straight) and 84SMT68 (angle)

Section «E» - ball valves

E-1..... Ball valves with flange connections, code 11SMT182 (NP 6) and 11SMT183 (NP16)

E-2..... Ball valves with Ermeto fittings, code 98SMT08 (NP40)

Section «F» - globe valves with threaded connections

F-1.....Straight globe valves with threaded ends, code 69SMT36 (NP10)

Section «G» - level gauges

G-1..... Level indicators with flat glass, code 58SMT01 (NP2.5)

Section «H» - mud boxes and strainers

H-1..... Straight mud box, code 27SMT90 (NP2.5)

H-2..... Angle mud box, code 27SMT91 (NP2.5)

H-3..... Straight mud box from galvanised steel, code 35SMT81 (NP2.5)

H-4..... Basket strainers, code 44SMT92 (NP2.5)

H-5.....Straight strainers with flanged connections, code 11SMT256 (NP6) and 11SMT257 (NP16)

Section «I» - sea inlet (Kingston) valves

I-1..... Straight sea inlet valves NP6, code 35SMT02 (straight) and 35SMT03 (angle)

Section «J» - overboard valves

J-1..... Angle overboard valves NP6, code 39SMT68

Section «K» - overflow valves

K-1.....Angle overflow valves, code 84SMT09 (NP3-6) and 84SMT10 (NP6-10)

Section «L» - discharge valves

L-1.....Discharge valves NP2.5, code 30SMT59

Section «M» - sounding cocks

M-1.....Sounding cocks NP1, code 81SMT49

Section «N» - valves and cocks with Ermeto connections

N-1.....Shut down valves NP40, code 48SMT04 (screw down) and 48SMT07 (screw down non-return)

N-2.....Cocks NP16, code 48SMT39 and 48SMT40

Section «O» - portholes

O-1.....Portholes from bronze, code 58SMT52

Section «P» - pipe couplings

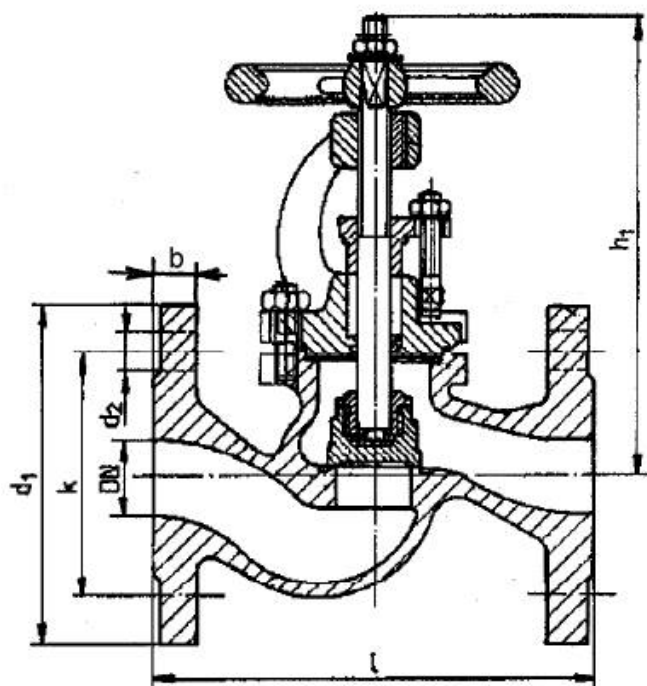
P-1.....Pipe couplings for steel pipes NP16, code 11SMT252

Section «Q» - armatures for instruments

Q-1.....Pressure gauge cocks NP16, code 51SMT05

26 SMT 77 - NP 6
26 SMT 83 - NP 16

STRAIGHT VALVE, SCREW DOWN



NOMINAL DIAMETER DN	MAX. WORK PRESSURE For NP 6 (bar)	
	< 120 °C	120 °C – 180 °C
15 – 250	6	5

NOMINAL DIAMETER DN	MAX. WORK PRESSURE For NP 16 (bar)	
	< 120 °C	120 °C – 180 °C
15 – 175	16	10
200 – 250	10	6

VERSION B – body: cast iron; internal parts: stainless steel

VERSION C – body: cast iron; internal parts: brass or bronze

VERSION D – body: bronze; internal parts: brass or bronze

VERSION H – body: GGG 40; internal parts: brass or bronze

VERSION K – body: GGG 40; internal parts: stainless steel

26 SMT 77

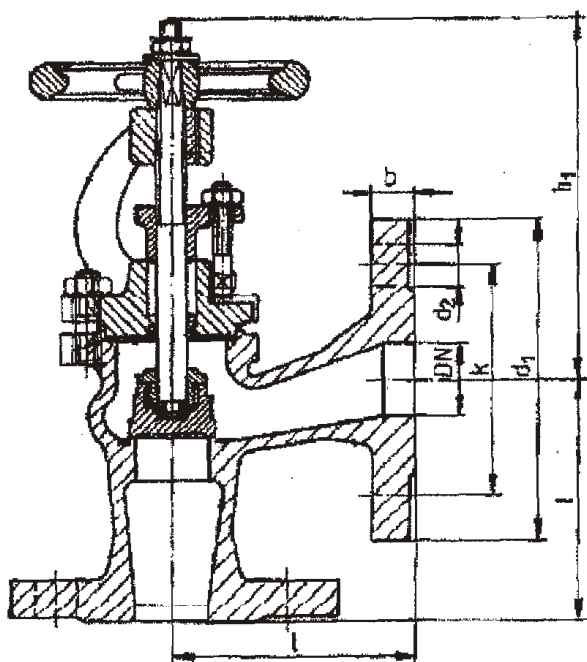
NOMINAL DIAMETER DN	d ₁	b VERSION		k	d ₂	n	l	h ₁
		B, C, H, K	D					
15	80	12	10	55	11		130	180
20	90			65			150	
25	100	14	12	75			160	
32	120			90			180	
40	130			100	14		200	189
50	140		14	110			230	
65	160	16		130			290	
80	190			150			310	
100	210	18	16	170	4		350	344
125	240		18	200			400	
150	265	20		225			480	
175	295			255			550	
200	320	22	20	280	8		600	532
250	375	24	22	335			730	

26 SMT 83

NOMINAL DIAMETER DN	d ₁	b VERSION		k	d ₂	n	l	h ₁
		B, C, H, K	D					
15	95	14		65	14		130	180
20	105			75			150	
25	115	16	12	85			160	
32	140			100			180	
40	150	18	14	110			200	189
50	165			125			230	
65	185	20	16	145			290	
80	200	22	18	160			310	
100	220	24		180	18		350	344
125	250		20	210			400	
150	285	26		240			480	
175	315	28	22	270			550	
200	340	30	24	295	22		600	532
250	405	32	26	355			730	

26 SMT 78 - NP 6
26 SMT 84 - NP 16

ANGLE VALVE, SCREW DOWN



NOMINAL DIAMETER DN	MAX. WORK PRESSURE For NP 6 (bar)	
	< 120 °C	120 °C – 180 °C
15 – 250	6	5

NOMINAL DIAMETER DN	MAX. WORK PRESSURE For NP 16 (bar)	
	< 120 °C	120 °C – 180 °C
15 – 175	16	10
200 – 250	10	6

VERSION B – body: cast iron; internal parts: stainless steel

VERSION C – body: cast iron; internal parts: brass or bronze

VERSION D – body: bronze; internal parts: brass or bronze

VERSION H – body: GGG 40; internal parts: brass or bronze

VERSION K – body: GGG 40; internal parts: stainless steel

26 SMT 78

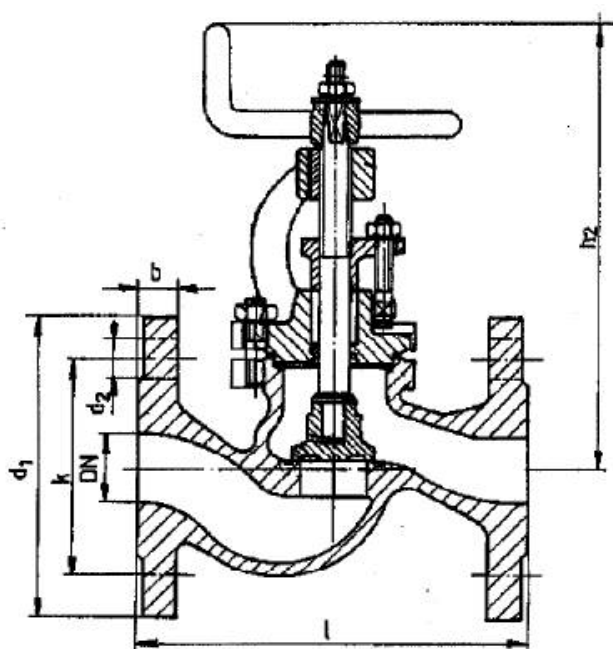
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		B, C, H, K	D					
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20	90	14	12	65			95	
25	100			75			100	
32	120			90			105	
40	130	16	14	100	14		115	199
50	140			110			125	
65	160			130			145	
80	190			150			155	
100	210	18	16	170	4		175	297
125	240	20	18	200			200	
150	265			225			225	
175	295			255			250	
200	320	22	20	280	8		275	444
250	375	24	22	335			325	

26 SMT 84

NOMINAL DIAMETER DN	d ₁	b VERSION		k	d ₂	n	l	h ₁
		B, C, H, K	D					
15	95	14		65	14		90	151
20	105	16	12	75			95	
25	115			85			100	
32	140			100			105	
40	150	18	14	110			115	199
50	165	20	16	125			125	
65	185			145			145	
80	200			160			155	
100	220	22	18	180	210	4	175	297
125	250	24	20	210			200	
150	285			240			225	
175	315			270			250	
200	340	26	22	295	22	8	275	444
250	405	30	24	355			325	

26 SMT 79 - NP 6
26 SMT 85 - NP 16

STRAIGHT VALVE, SCREW DOWN - NON RETURN



NOMINAL DIAMETER DN	MAX. WORK PRESSURE For NP 6 (bar)	
	< 120 °C	120 °C – 180 °C
15 – 250	6	5

NOMINAL DIAMETER DN	MAX. WORK PRESSURE For NP 16 (bar)	
	< 120 °C	120 °C – 180 °C
15 – 175	16	10
200 – 250	10	6

VERSION B – body: cast iron; internal parts: stainless steel

VERSION C – body: cast iron; internal parts: brass or bronze

VERSION D – body: bronze; internal parts: brass or bronze

VERSION H – body: GGG 40; internal parts: brass or bronze

VERSION K – body: GGG 40; internal parts: stainless steel

26 SMT 79

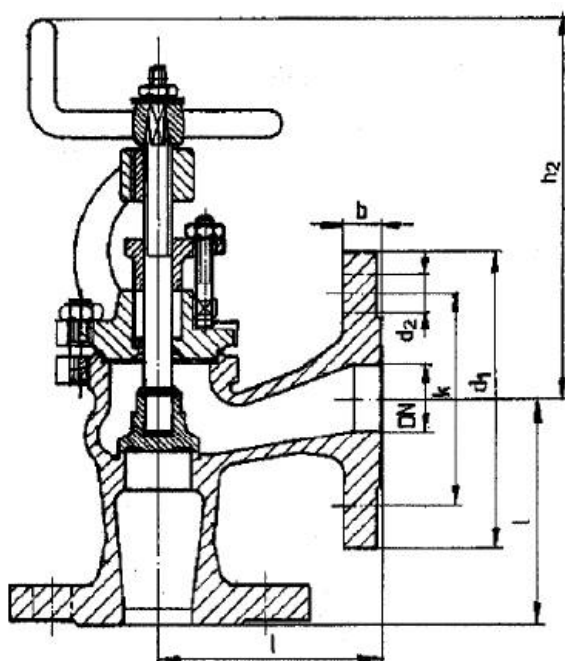
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		B, C, H, K	D					
15	80	12	10	55	11		130	206
20	90	14	12	65			150	
25	100			75			160	
32	120			90			180	
40	130	16	14	100	14		200	230
50	140			110			230	
65	160			130			290	
80	190			150			310	
100	210	18	16	170	4		350	396
125	240	20	18	200			400	
150	265			225			480	
175	295			255			550	
200	320	22	20	280	8		600	601
250	375	24	22	335			730	

26 SMT 85

NOMINAL DIAMETER DN	d ₁	b		k	d ₂	n.	l	h ₂
		VERSION						
		B, C, H, K	D					
15	95	14		65	14		130	206
20	105	16		75			150	
25	115			85			160	
32	140			100			180	
40	150	18	14	110		4	200	230
50	165	20	125	230				
65	185		145	290				
80	200		16	310				
100	220	22	18	160	18		350	396
125	250	24	20	180			400	
150	285			210			480	
175	315			240			550	
200	340	26	22	270	22	8	600	601
250	405	28	24	295			730	
		30	26	355			810	
		32	28	420			900	

26 SMT 80 - NP 6
26 SMT 86 - NP 16

ANGLE VALVE, SCREW DOWN - NON RETURN



NOMINAL DIAMETER DN	MAX. WORK PRESSURE For NP 6 (bar)	
	< 120 °C	120 °C – 180 °C
15 – 250	6	5

NOMINAL DIAMETER DN	MAX. WORK PRESSURE For NP 16 (bar)	
	< 120 °C	120 °C – 180 °C
15 – 175	16	10
200 – 250	10	6

VERSION B – body: cast iron; internal parts: stainless steel

VERSION C – body: cast iron; internal parts: brass or bronze

VERSION D – body: bronze; internal parts: brass or bronze

VERSION H – body: GGG 40; internal parts: brass or bronze

VERSION K – body: GGG 40; internal parts: stainless steel

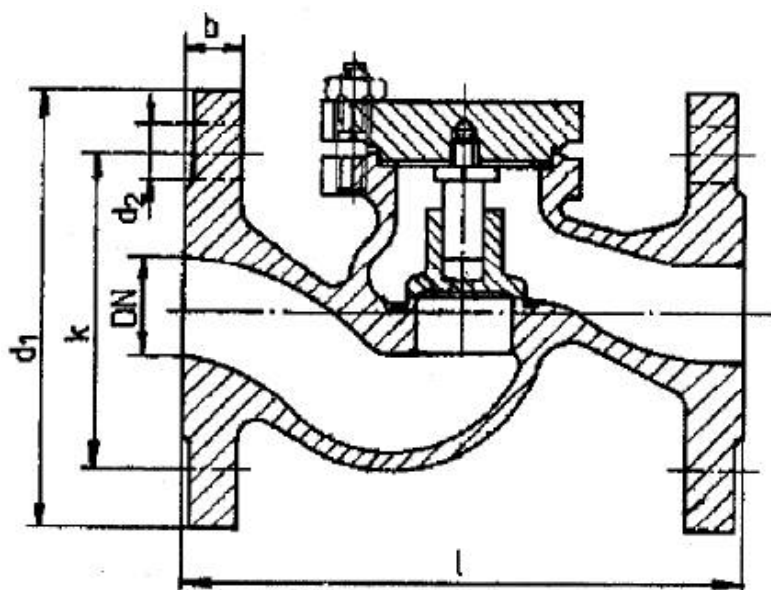
26 SMT 80

NOMINAL DIAMETER DN	d ₁	b VERSION		k	d ₂	n.	l	h ₂
		B, C, H, K	D					
15	80	12	10	55	11		90	177
20	90			65			95	
25	100	14	12	75			100	
32	120			90			105	
40	130	16	14	100	14		115	200
50	140			110			125	
65	160			130			145	
80	190			150			155	
100	210	18	16	170	4		175	349
125	240		18	200			200	
150	265	20		225			225	
175	295			255			250	
200	320	22	20	280	8		275	513
250	375	24	22	335			325	

26 SMT 86

NOMINAL DIAMETER DN	d ₁	b VERSION		k	d ₂	n.	l	h ₂
		B, C, H, K	D					
15	95	14		65	14		90	177
20	105			75			95	
25	115	16	12	85			100	
32	140			100			105	
40	150	18	14	110		4	115	200
50	165			125			125	
65	185	20	16	145			145	
80	200	22	18	160			155	
100	220	24		180	18		175	349
125	250		20	210			200	
150	285	26		240			225	
175	315	28	22	270			250	
200	340	30	24	295	22	8	275	513
250	405	32	26	355			325	

STRAIGHT VALVE, NON RETURN



NOMINAL DIAMETER DN	MAX. WORK PRESSURE For NP 6 (bar)	
	< 120 °C	120 °C – 180 °C
15 – 250	6	5

NOMINAL DIAMETER DN	MAX. WORK PRESSURE For NP 16 (bar)	
	< 120 °C	120 °C – 180 °C
15 – 175	16	10
200 – 250	10	6

VERSION B – body: cast iron; internal parts: stainless steel

VERSION C – body: cast iron; internal parts: brass or bronze

VERSION D – body: bronze; internal parts: brass or bronze

VERSION H – body: GGG 40; internal parts: brass or bronze

VERSION K – body: GGG 40; internal parts: stainless steel

26 SMT 81

NOMINAL DIAMETER DN	d ₁	b VERSION		k	d ₂	n	l
		B, C, H, I	D				
15	80	12	10	55	11		130
20	90			65			150
25	100	14	12	75			160
32	120			90			180
40	130			100	14		200
50	140		14	110			230
65	160	16		130			290
80	190			150			310
100	210	18	16	170	4		350
125	240		18	200			400
150	265	20		225			480
175	295			255			550
200	320	22	20	280	18	8	

26 SMT 87

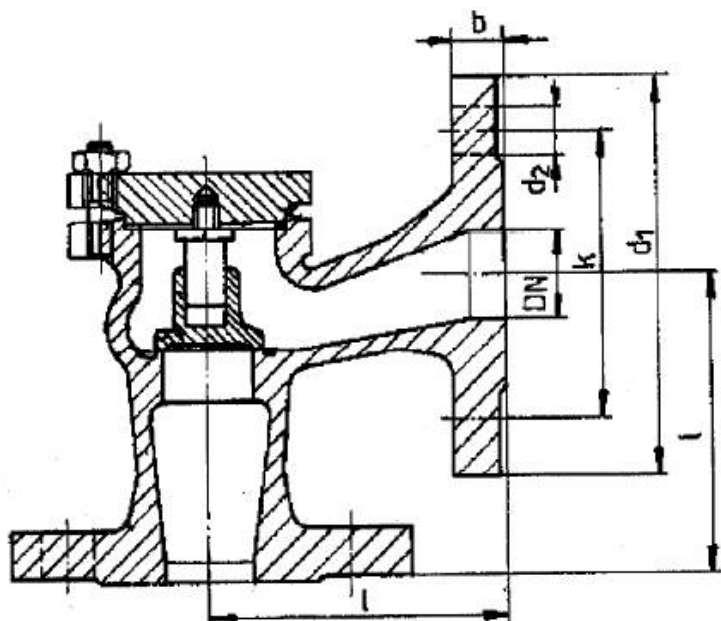
NOMINAL DIAMETER DN	d ₁	b VERSION		k	d ₂	n	l
		B, C, H, I	D				
15	95	14		65	14		130
20	105			75			150
25	115	16	12	85			160
32	140			100			180
40	150	18	14	110			200
50	165			125			230
65	185	20	16	145			290
80	200	22	18	160			310
100	220	24		180	18		350
125	250		20	210			400
150	285	26		240			480
175	315	28	22	270			550
200	340	30	24	295	22	12	600

26 SMT 82 - NP 6
26 SMT 88 - NP 16



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E-mail : armature@somet.hr
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M. Balote 59, Rijeka, Croatia

ANGLE VALVE, NON RETURN



NOMINAL DIAMETER DN	MAX. WORK PRESSURE For NP 6 (bar)	
	< 120 °C	120 °C – 180 °C
15 – 250	6	5

NOMINAL DIAMETER DN	MAX. WORK PRESSURE For NP 16 (bar)	
	< 120 °C	120 °C – 180 °C
15 – 175	16	10
200 – 250	10	6

VERSION B – body: cast iron; internal parts: stainless steel

VERSION C – body: cast iron; internal parts: brass or bronze

VERSION D – body: bronze; internal parts: brass or bronze

VERSION H – body: GGG 40; internal parts: brass or bronze

VERSION K – body: GGG 40; internal parts: stainless steel

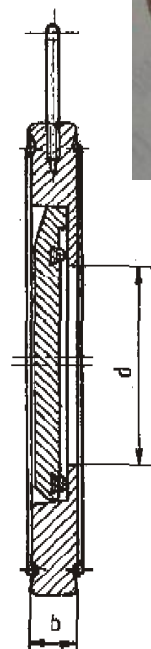
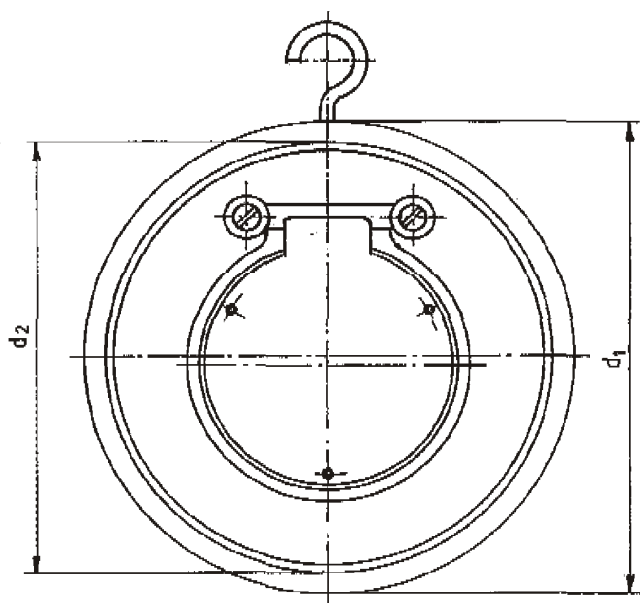
26 SMT 82

26 SMT 88

NOMINAL DIAMETER DN	d ₁	b VERSION		k	d ₂	n.	l
		B, C, H, I	D				
15	80	12	10	55	11		90
20	90	14	12	65			95
25	100			75			100
32	120			90			105
40	130	16	14	100	14		110
50	140			110			125
65	160			130			145
80	190			150			175
100	210	18	16	170	4		175
125	240	20	18	200			200
150	265			225			225
175	295			255			250
200	320	22	20	280	18	8	275

NOMINAL DIAMETER DN	d ₁	b VERSION		k	d ₂	n.	l
		B, C, H, I	D				
15	95	14		65	14		90
20	105	16	12	75			95
25	115			85			100
32	140			100			105
40	150	18	14	110			115
50	165			125			125
65	185			145			145
80	200			160	4		155
100	220	22	18	180			175
125	250			210			200
150	285			240			225
175	315	26	22	270	8		250
200	340			295			275

CHECK VALVE, SWING TYPE



DN	b	d	d1	d2	FLOW m ³ /h	MIN. PRESS. kPa
40	14	22	95	72	23	0,500
50	19	32	109	86	49	0,650
65	19	40	129	108	75	0,700
80	19	54	144	118	125	0,750
100	19	70	164	146	183	0,800
125	19	92	195	172	340	0,850
150	20	114	220	197	500	0,950
175	22	138	250	224	800	0,960
200	22	158	275	254	1100	0,975
250	25	200	330	305	1610	1,100
300	32	240	380	357	2290	1,300

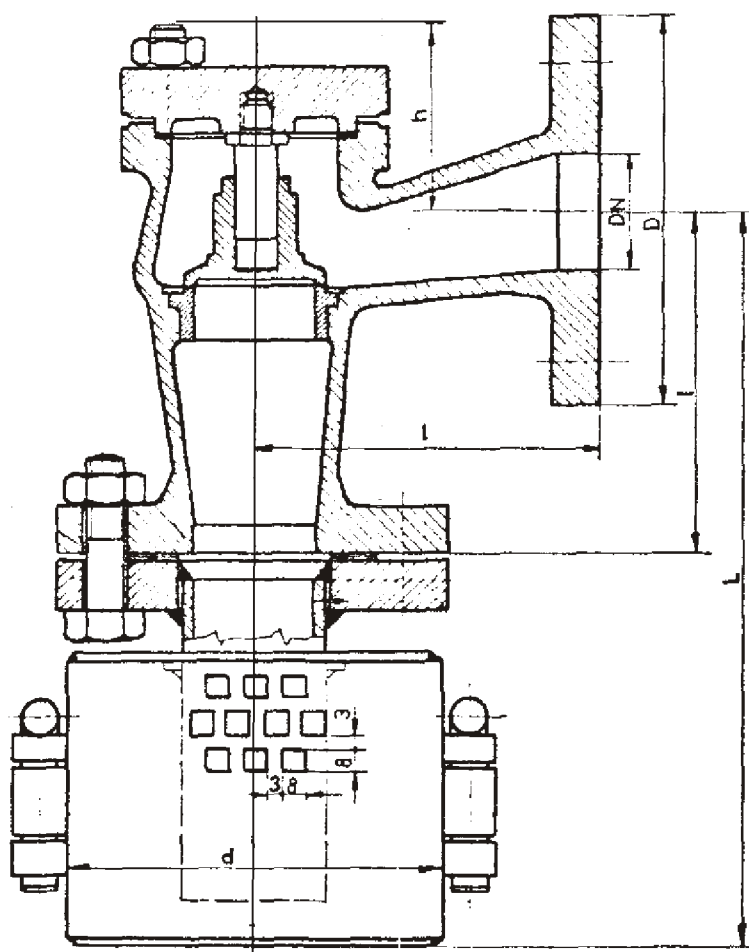
Material :

- body : galv. steel; bronze; cast iron
- swing : stainless steel; bronze
- gasket : "O"-ring perbunan, up to 90 °C

Min. press :

- minimal pressure needed to open swing when valve is installed in vertical pipeline

SUCTION BASKET WITH NON RETURN VALVE



DN	D	d	L	l	h
40	130	125	250	115	62
50	140	150	286	125	66
65	160	200	343	145	78
80	190	225	398	155	98
100	210	275	456	175	108
125	240	340	545	200	118
150	265	400	632	225	148

Valve material :

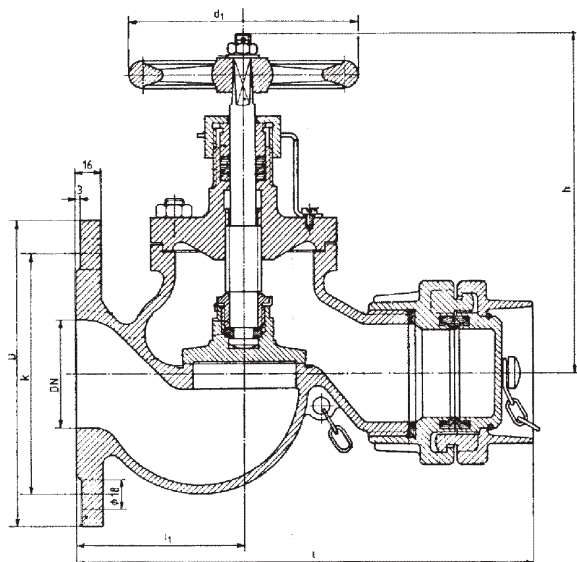
- body.... GG 25, GGG 40, CuSn5Zn5Pb5
- internal parts....brass, stainless steel

Basket material :

- galvanized steel, Stainless steel

84 SMT 67 - NP 16 - STRAIGHT
84 SMT 68 - NP 16 - ANGLE

FIREFIGHTING AND DECKWASH VALVE

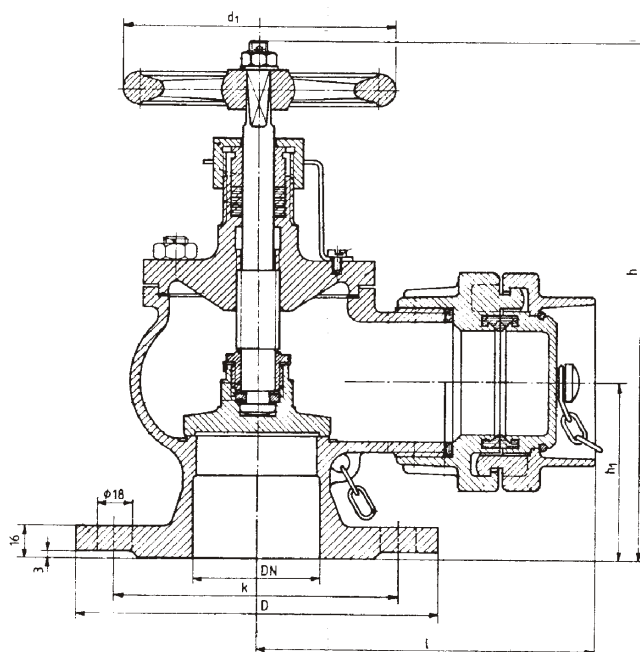


NOMINAL PRESSURE NP	TESTING PRESSURE bar	
	BODY	CLOSING
16	25	16

Couplings : STORZ or UNI
Material : bronze

84SMT67

NOMINAL DIAMETER DN	D	k	n .	d1	l »	l1	h
50	165	125	4	140	233	85	172
65	185	145	4	160	272	105	208

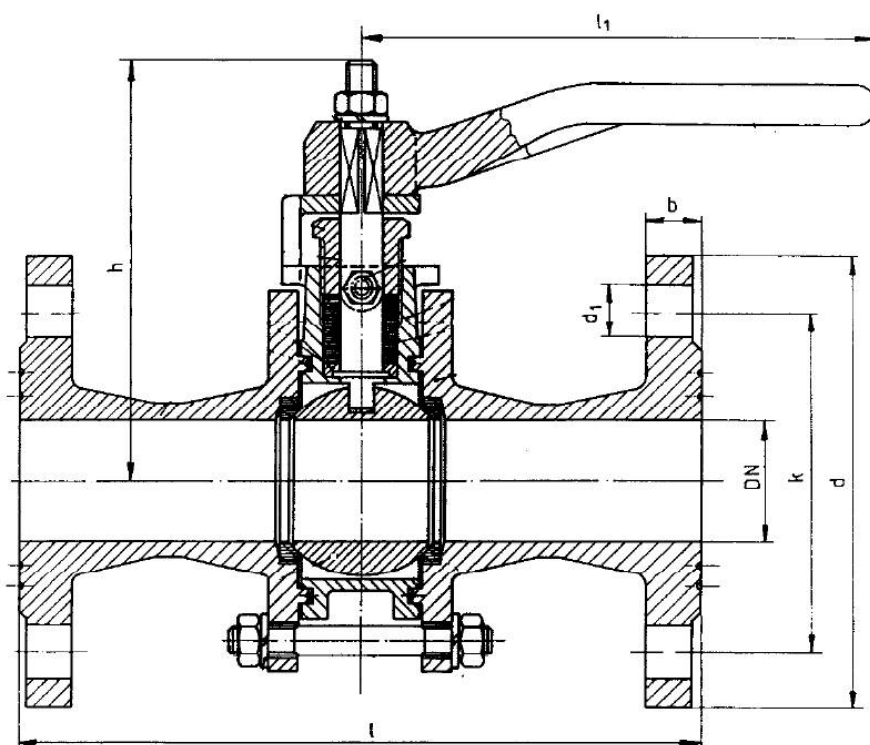


84SMT68

NOMINAL DIAMETER DN	D	k	n .	d1	l »	h	h1
50	165	125	4	140	143	228	75
65	185	145	4	160	167	265	90

11 SMT 182 - NP 6
11 SMT 183 - NP 16

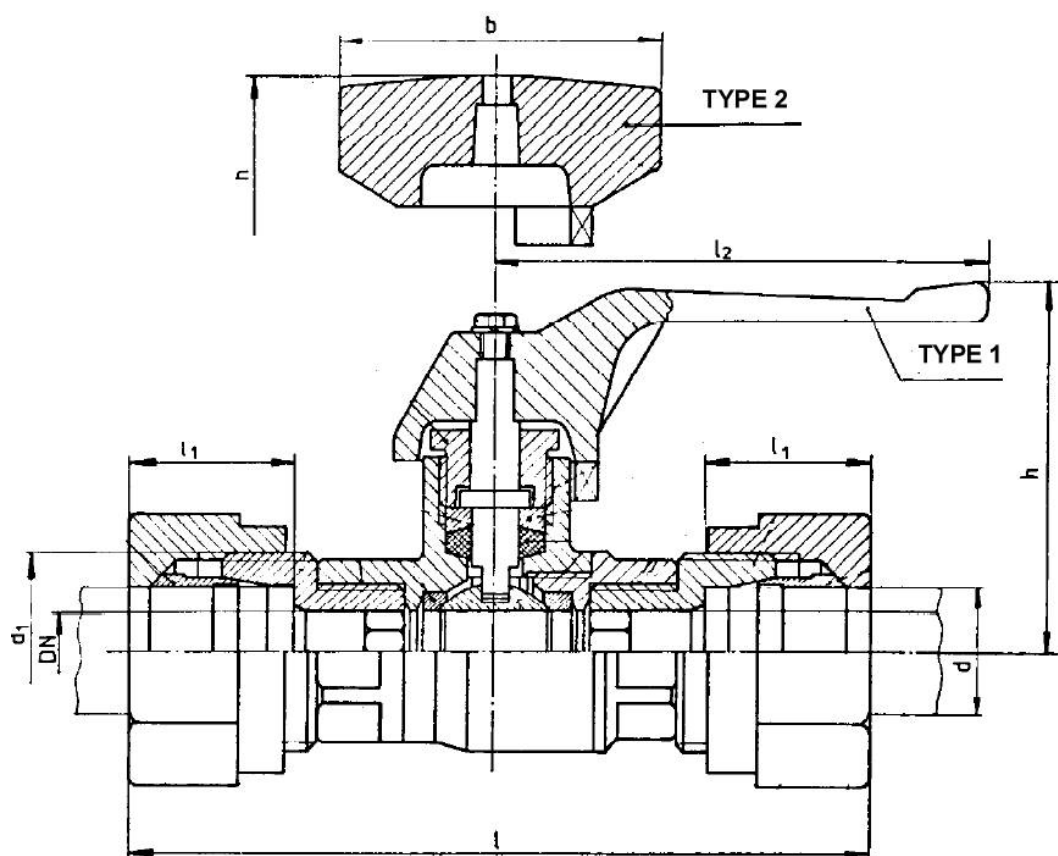
BALL VALVE



BODY MATERIAL : BRONZE
INTERNAL PARTS : BRASS
SEAT : PTFE

DN	11SMT182 - NP 6					11SMT183 - NP 16					l	l1	h
	d	b	holes			d	b	holes					
			k	d1	No.			k	d1	No.			
15	80	10	55	11	4	95	12	65	14	4	130	100	82
20	90		65			105		75			150		87
25	100	12	75			115		85			160		107
32	120		90	140		100	180	135					
40	130		100	150		14	110	200	135				
50	140		14	110		165	125	230	151				
65	160		130	185		16	145	290	153				
80	190		150	200		18	160	310	176				
100	210		16	170		18	8	350	196				

BALL VALVES WITH HERMETIC FITTINGS



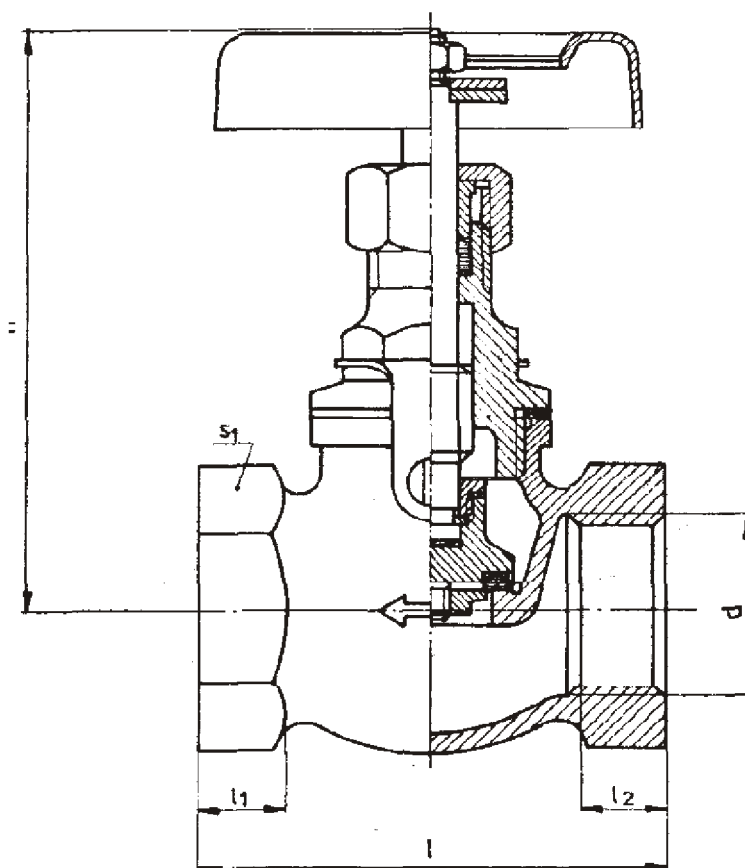
Nominal dim.		b	d1	l	l1	l2	h	
DN	d						type 1	type 2
8	80	40	M20X1,5	84,5	18	60	44	40
12	90		M24X1,5	93	20,5		46	42
16	100		M30X2	116	25,5		53	45
20	120		M36X2	128,5	29		57	48
25	130	64	M42X2	150,5	31,5	135	71	53

UP TO 180 °C

Type "A" : for steel pipes

Type "B" : for copper pipes

GLOBE VALVES WITH THREADED ENDS

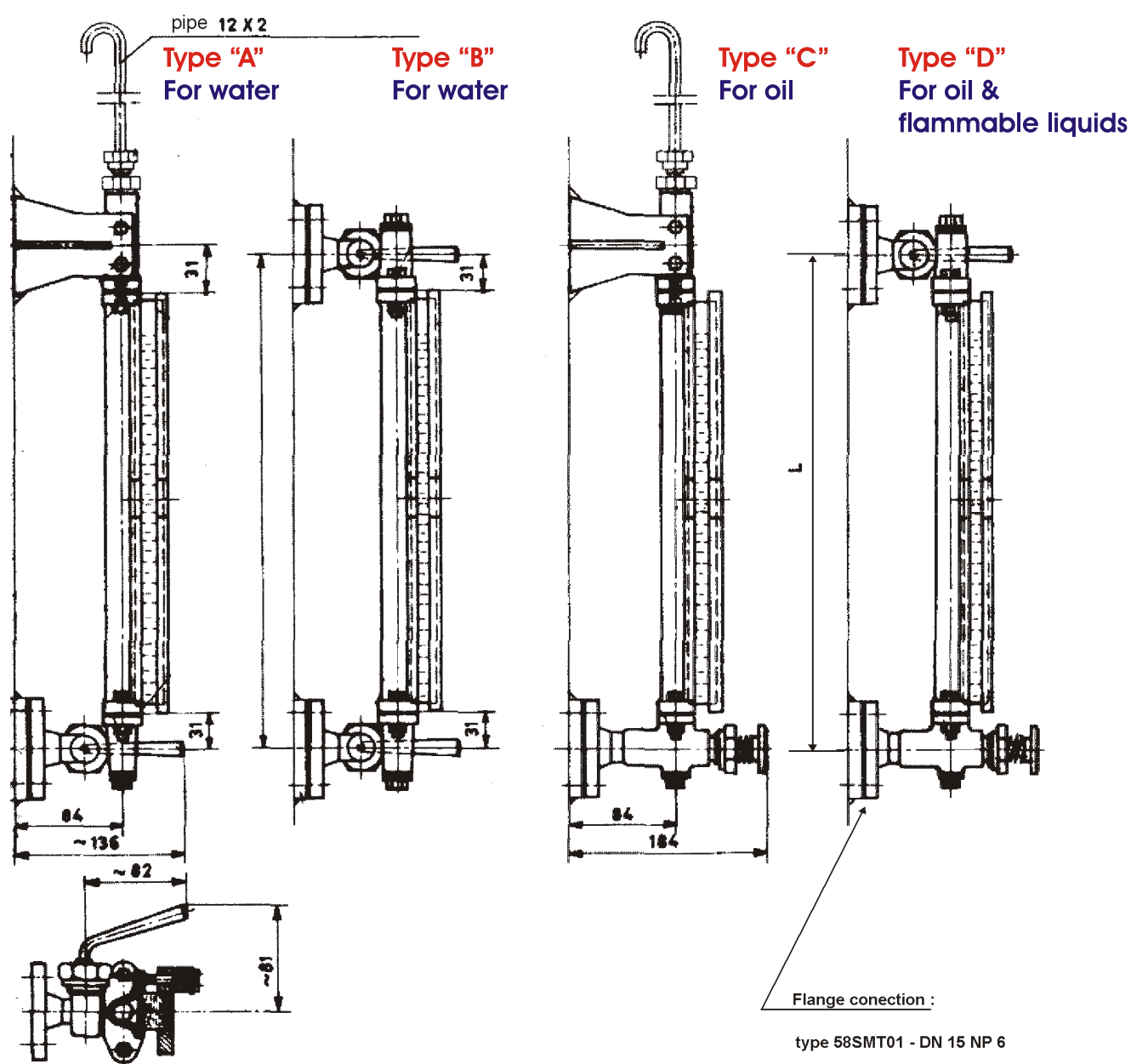


DN	d	h	l	l1	l2	s1
15	R 1/2"	73	55	11	11	27
20	R 3/4"	82	70	12	12	36
25	R 1"	95	80	14	14	41
32	R 1 1/4"	115	90	14	14	50

Body material : Bronze

Internal parts : Brass

LEVEL INDICATORS WITH FLAT GLASS



Other connections available on request

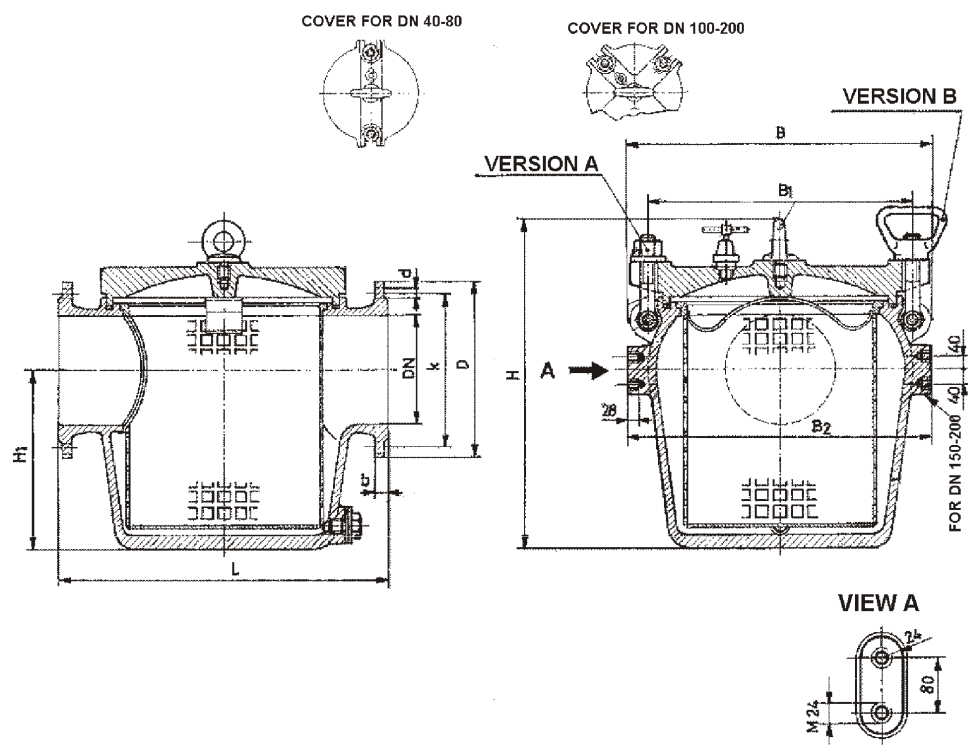
Standard dimensions

L	330	600	1140	1410	1680	1950	2220
---	-----	-----	------	------	------	------	------

Other dimensions available on request

Body material : Bronze

MUD BOX - STRAIGHT



DN	flanges					l	h
	d	s	holes				
			k	d2	No.		
40	130	16	100	14	4	200	202
50	140	16	110	14	4	230	224
65	160	16	130	14	4	290	263
80	190	16	150	18	4	310	299
100	210	18	170	18	4	350	339
125	240	20	200	18	8	300	416
150	265	20	225	18	8	380	468
175	295	22	255	18	8	550	528
200	320	22	280	18	8	600	580

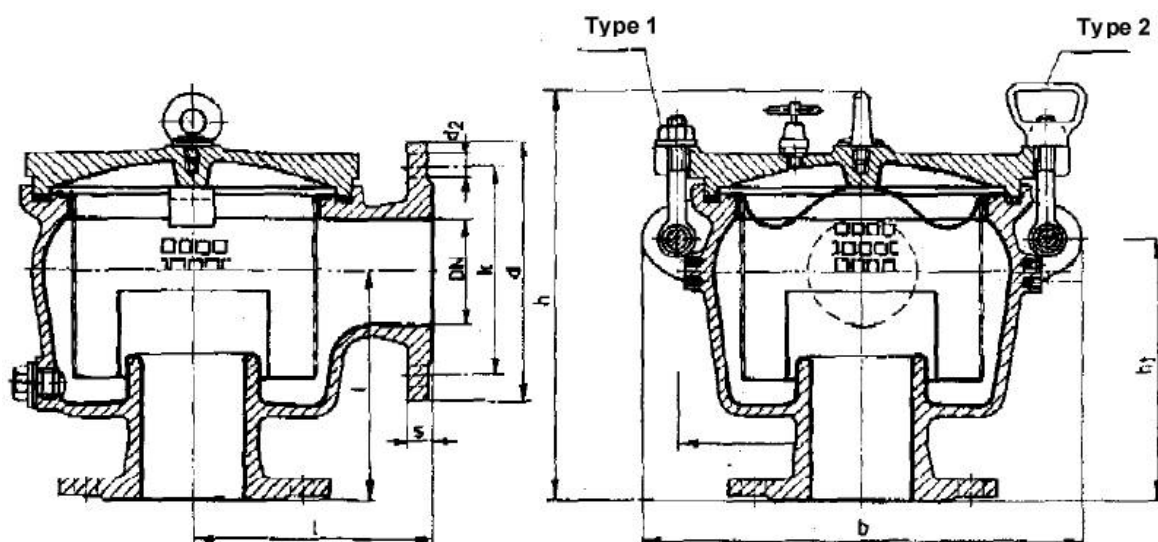
Body material :

- bronze
- cast iron

Basket material :

- steel galvanized
- stainless steel

MUD BOX - ANGLE



DN	flanges		holes			b	l	h
	d	s	k	d2	No.			
40	130	16	100	14	4	242	125	238
50	140	16	110	14	4	268	135	262
65	160	16	130	14	4	296	150	288
80	190	16	150	18	4	326	175	318
100	210	18	170	18	4	294	195	269
125	240	20	200	18	8	442	220	407
150	265	20	225	18	8	512	270	489
175	295	22	255	18	8	558	300	532

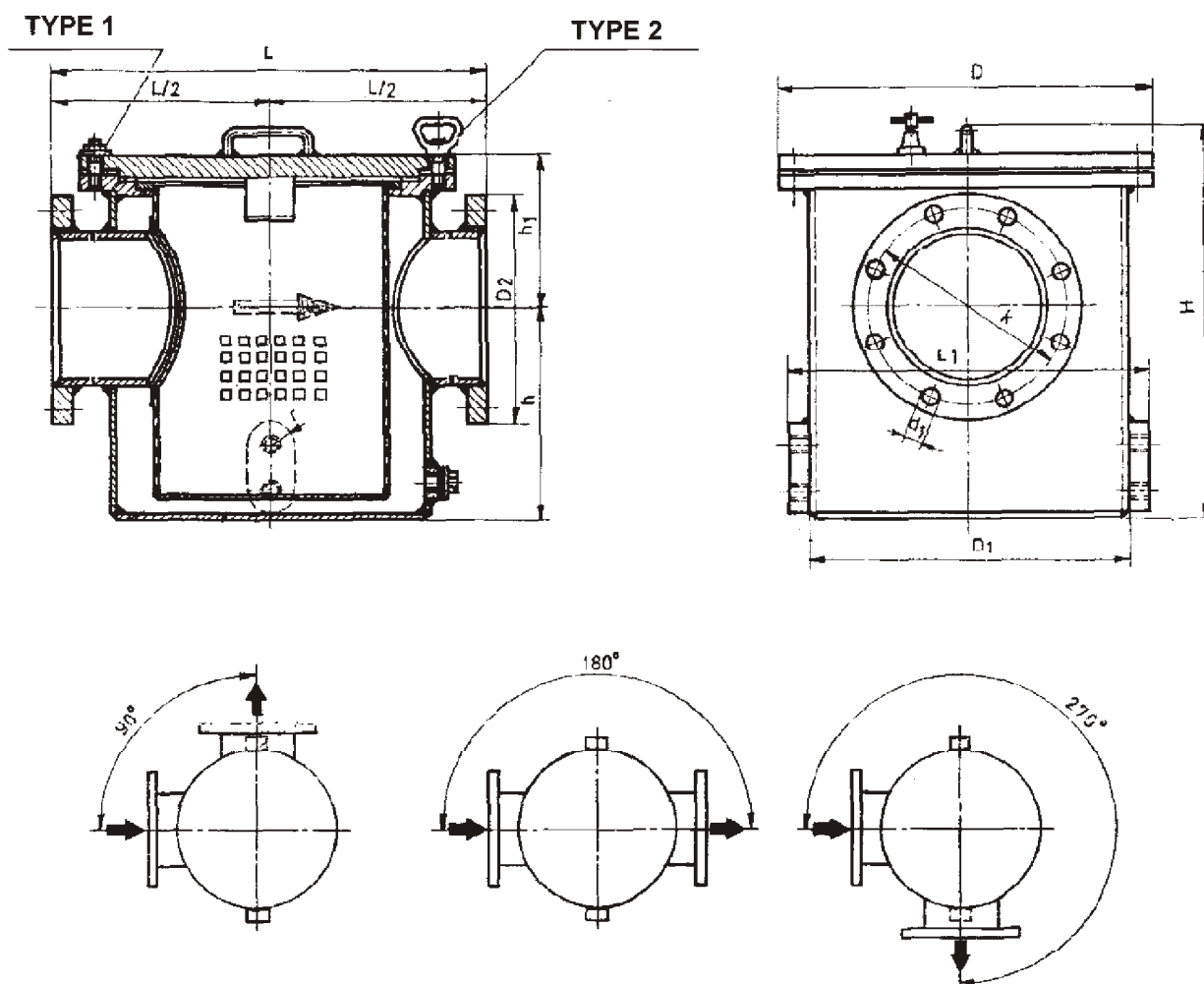
Body material :

- bronze
- cast iron

Basket material :

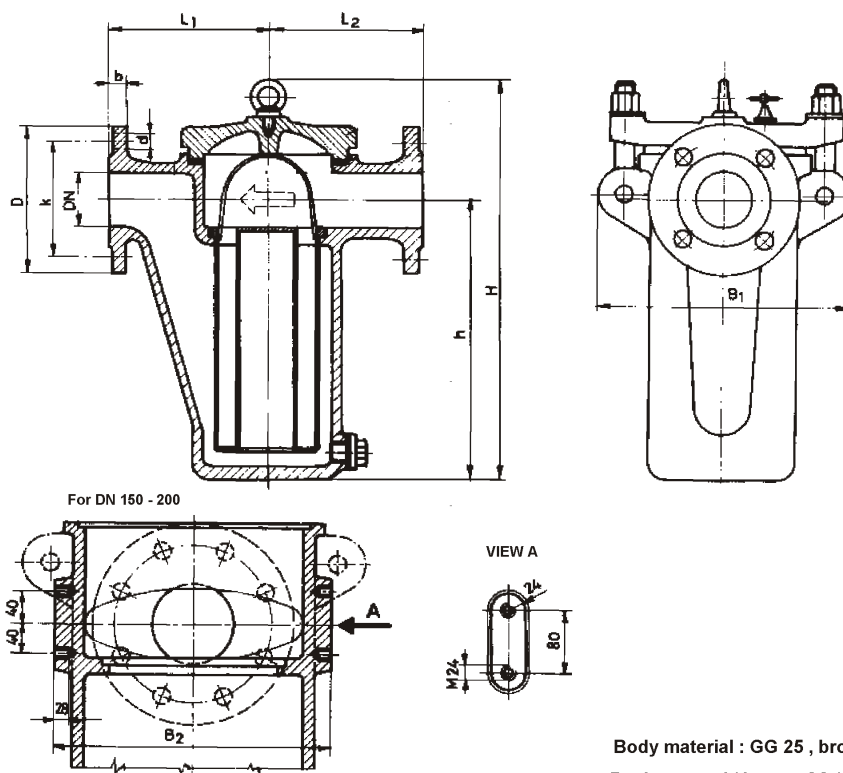
- steel galvanized
- stainless steel

MUD BOX - GALVANISED STEEL



DN	flanges						h	h1	H	L	L1
	D	D1	holes								
			D2	k	d1	No.					
150	420	355,6	265	225	18	8	235	172	447	480	420
175	460	386	295	255	18	8	290	185	515	550	450
200	510	436	320	280	18	8	310	215	575	600	500
250	610	530	375	335	18	12	350	242	642	730	594
300	675	590	440	395	22	12	415	282	747	850	670
350	775	685	490	445	22	12	500	309	859	980	765
400	875	785	540	495	22	16	580	326	956	1086	865
450	935	834	595	550	22	16	600	354	994	1140	914
500	1045	925	645	600	22	20	600	384	1039	1230	1005
600	1240	1108	775	705	26	20	710	444	1209	1416	1188
700	1420	1283	860	810	26	24	740	495	1295	1600	1363

BASKET STRAINER



Body material : GG 25 , bronze

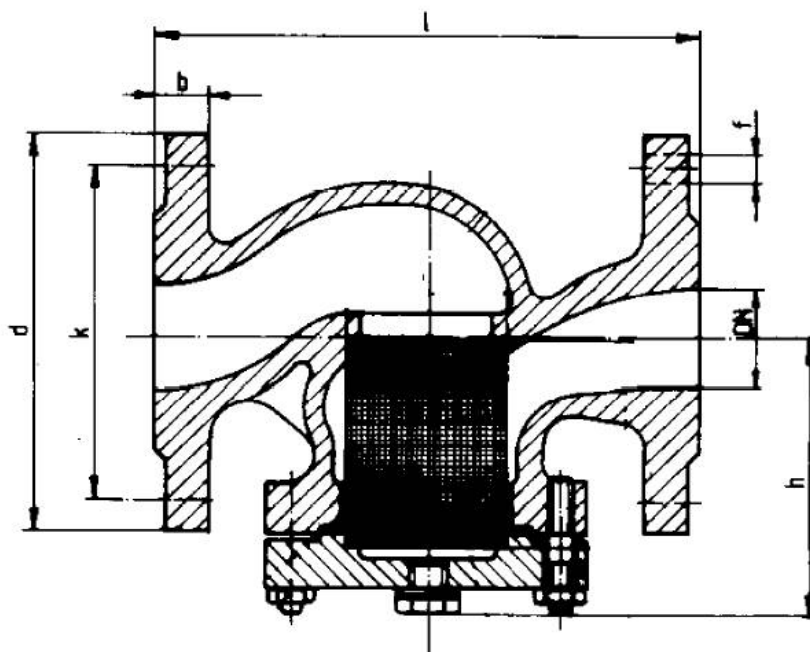
Basket : steel / brass, SS / brass

DN	flanges					h	L1	L2	B1	B2	H
	D	b	holes								
			k	d	No.						
25	100	14	75	11	4	140	125	125	202	-	241
32	120	16	90	14	4	192	125	125	202	-	296
40	130	16	100	14	4	212	138	138	202	-	321
50	140	16	110	14	4	268	150	150	242	-	387
65	160	16	130	14	4	280	175	175	268	-	407
80	190	18	150	18	4	330	225	225	326	-	473
100	210	18	170	18	4	342	225	225	326	-	519
125	240	20	200	18	8	350	265	265	386	-	543
150	265	20	225	18	8	370	300	275	442	380	573
175	295	22	255	18	8	465	340	285	500	420	693
200	320	22	280	18	8	565	380	310	558	460	821

STRAINERS

Type A : body - cast iron, basket - stainless steel

Type B : body - bronze, basket - stainless steel



DN	Flange NP 6						Flange NP 16						l	Type h									
	Type b		d	holes			Type b		d	holes				A	B								
	A	B		k	f	No.	A	B		k	f	No.											
15	12	10	80	55	11		16		95	65	14		130	77	69								
20	12	12	90	65			12		105	75			160			100							
25			100	75									14			140	100	180	102				
32			120	90														16	150	110	200	105	
40			130	100	18	165		125			230	110											
50	14	14	140	110			16		185	145	290	115											
65			160	130							18	200	160	310	135								
80			190	150										20	220	180	350	165					
100			210	170	22	250		210									400	175					
125	16	16	240	200			18		285	240							480	200					
150	18	18	265	225							8	22	315				270	550	230				
175			295	255										24	24	340		295	600	261			
200			20	20	320	280		12											26	26	405	355	26
250			22	22	375	335	22																

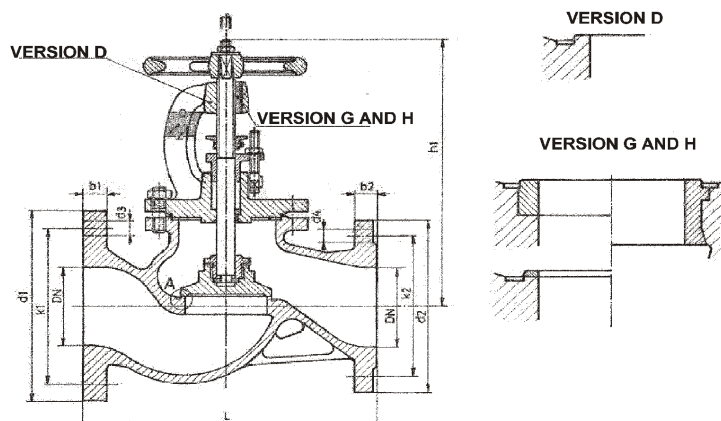
SEA INLET VALVE (KINGSTON VALVE)

VERSION D – body: bronze; internal parts: brass or bronze

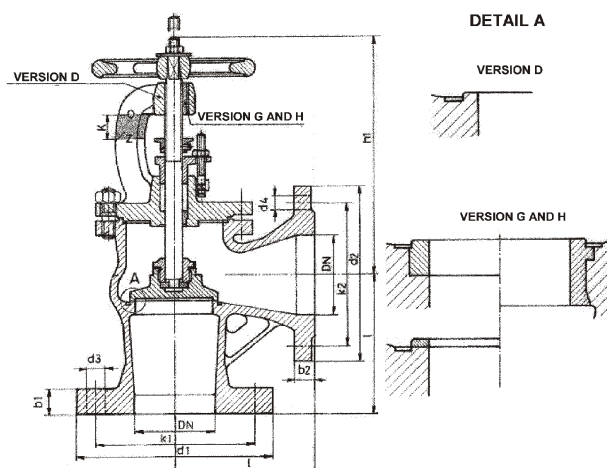
VERSION G – body: cast steel; internal parts: brass

VERSION H – body: GGG; internal parts: brass or bronze

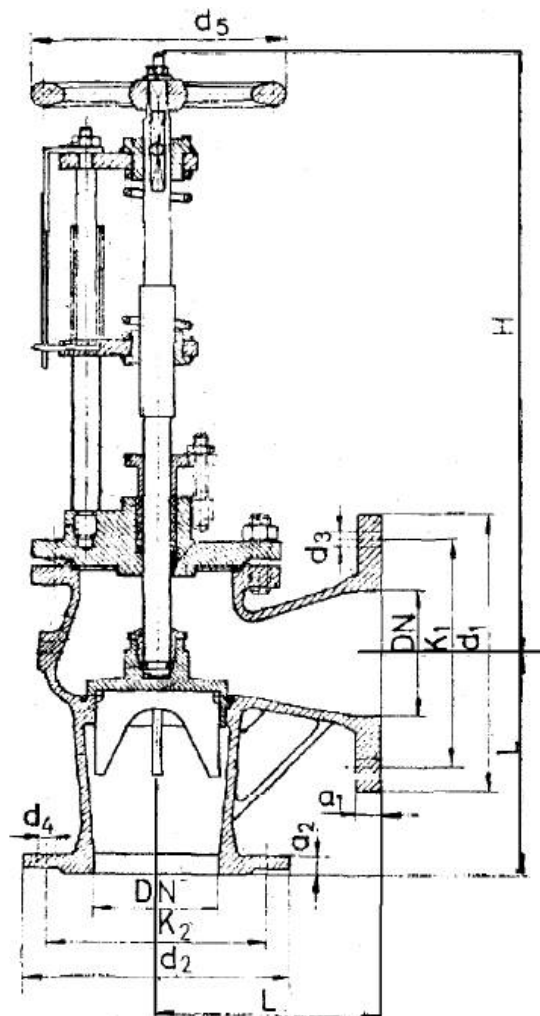
DETAIL A



DN	Flange NP 16					Flange NP 6					L	l	h	h1	D1
	d1	b1	holes			d2	b2	holes							
			k1	d3	No.			k2	d4	No.					
40	150	14	110	18	4	130	14	100	14	4	200	115	229	199	140
50	165	16	125	18	4	140	14	110	14	4	230	125	229	199	140
65	185	16	145	18	4	160	16	130	14	4	290	145	261	229	160
80	200	18	160	18	8	190	16	150	18	4	310	155	294	261	160
100	220	20	180	18	8	210	16	170	18	4	350	175	344	297	200
125	250	20	210	18	8	240	18	200	18	8	400	200	373	323	250
150	285	22	240	22	8	265	20	225	18	8	480	225	448	378	320
175	315	22	270	22	8	295	20	265	18	8	550	250	487	410	320
200	340	24	295	22	12	320	20	280	18	8	600	275	532	444	400
250	405	26	355	26	12	375	22	335	18	12	730	325	642	532	400
300	460	26	410	26	12	440	22	395	22	12	850	375	709	589	400



OVERBOARD VALVE

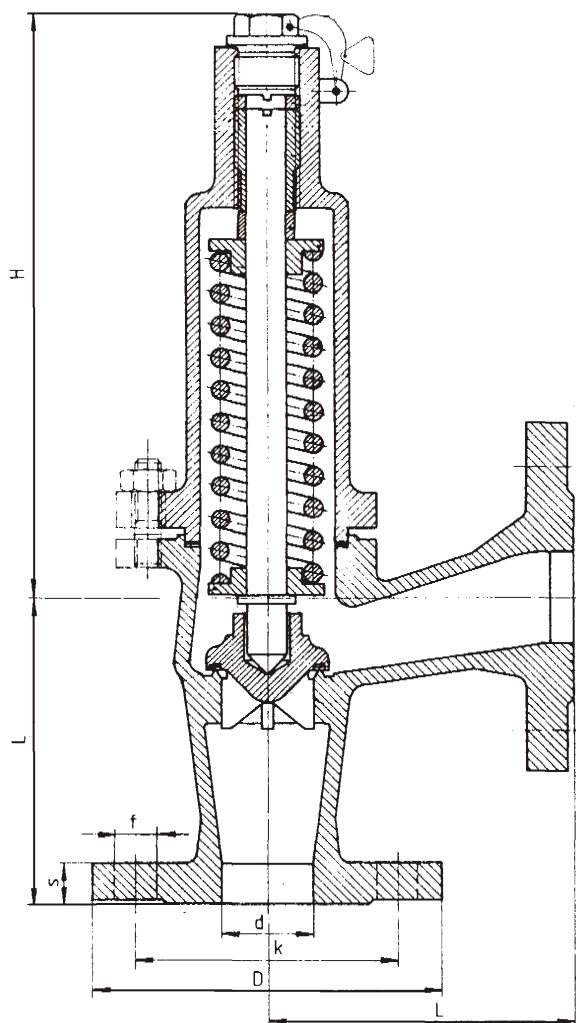


DN	Flange NP 16					Flange NP 6					L	H	d5
	d1	a1	holes			d2	a2	holes					
			k1	d3	No.			k2	d4	No.			
25	115	12	85	14	4	100	12	75	11	4	100	275	120
32	140	14	100	18	4	120	14	90	14	4	105	275	120
40	150	14	110	18	4	130	14	100	14	4	115	340	140
50	165	16	125	18	4	140	14	110	14	4	125	345	140
65	185	16	145	18	4	160	16	130	14	4	145	360	160
80	200	18	160	18	8	190	16	150	18	4	155	430	160
100	220	20	180	18	8	210	16	170	18	4	175	475	200
125	250	20	210	18	8	240	18	200	18	8	200	520	250
150	285	22	240	22	8	265	20	225	18	8	225	595	320
175	315	22	270	22	8	295	20	265	18	8	250	680	320
200	340	24	295	22	12	320	20	280	18	8	275	755	400
250	405	26	355	26	12	375	22	335	18	12	325	845	400
300	460	26	410	26	12	440	22	395	22	12	375	915	400

DN	NP
40-250	6
300	4

84 SMT 09 - NP 3-6
84 SMT 10 - NP 6-10

OVERFLOW VALVE



Body material : Bronze

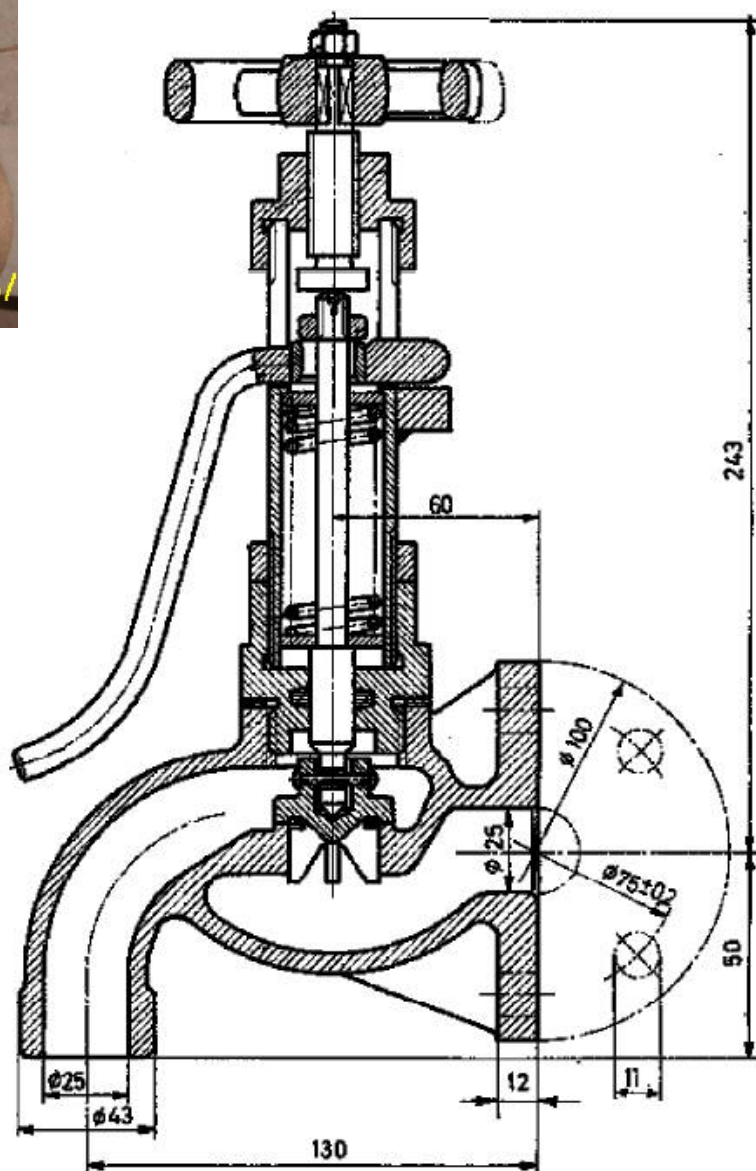
Working pressure :

NP 3-6.....code 84SMT09

NP 6-10....code 84SMT10

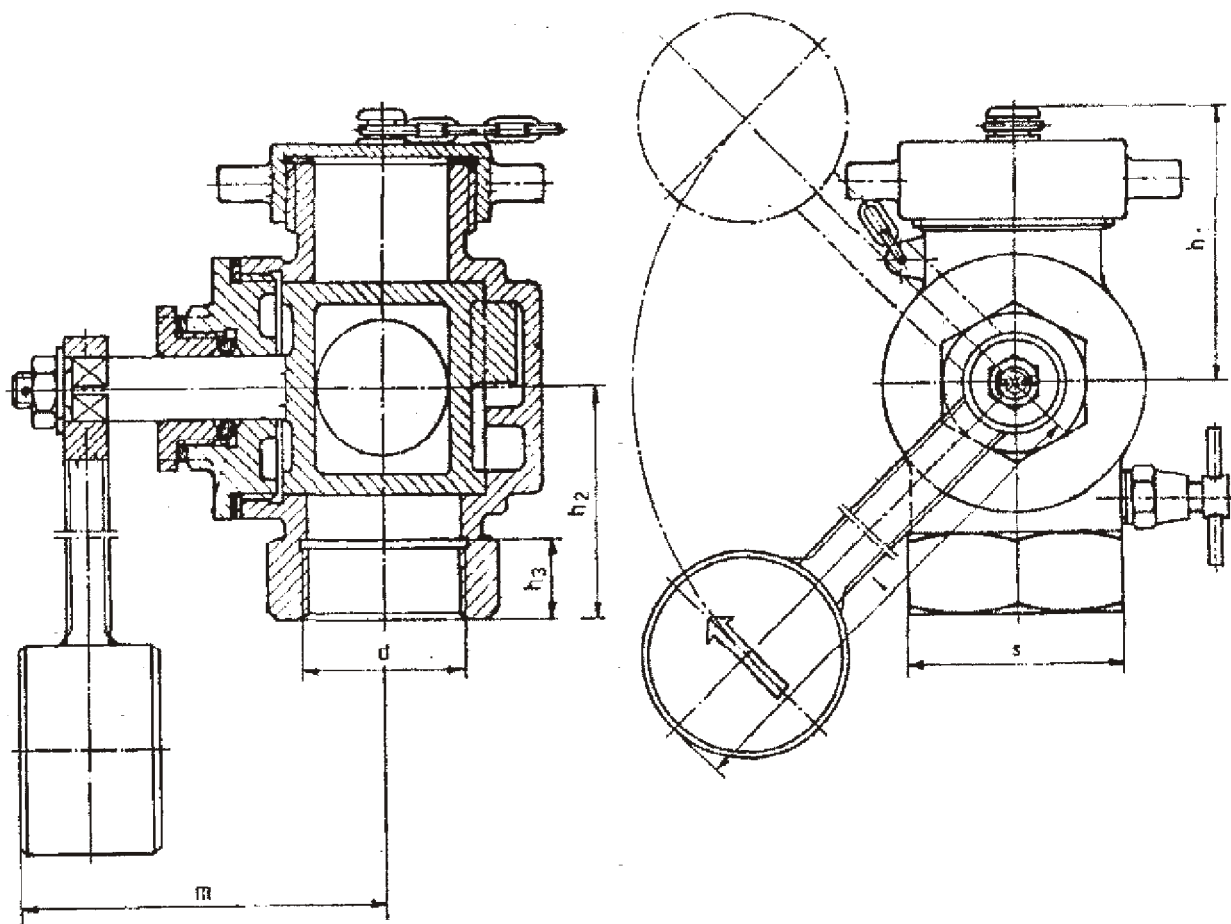
DN	84SMT09 (DN20-DN100)					84SMT10 (DN20-DN80)					d	L	H
	D	s	holes			D	s	holes					
			k	f	No.			k	f	No.			
20	90	12	65	11	4	105	12	75	14	4	20	95	161
25	100	12	75	11	4	115	12	85	14	4	25	100	187
32	120	14	90	14	4	140	14	100	18	4	32	105	202
40	130	14	100	14	4	150	14	110	18	4	40	115	247
50	140	14	110	14	4	165	16	125	18	4	50	125	288
65	160	16	130	14	4	185	16	145	18	4	65	145	350
80	190	16	150	18	4	200	16	160	18	8	80	155	394
100	210	16	170	18	4	-	-	-	-	-	100	175	398

DISCHARGE VALVE DN 25



Body material : bronze

SOUNDING COCKS



DN	d	h1	h2	h3	l	m	s
40	R 1 1/2"	80	66	23	200	92	60
50	R 2"	91	84	37	210	98	70

COCK MATERIAL : BRONZE

WEIGHT : STEEL

48 SMT 04 - NP 40 - SCREW DOWN
48 SMT 07 - NP 40 - S.D. - NON RET.

SHUT DOWN VALVE (WITH ERMETO FITTINGS)



UP TO 225 °C

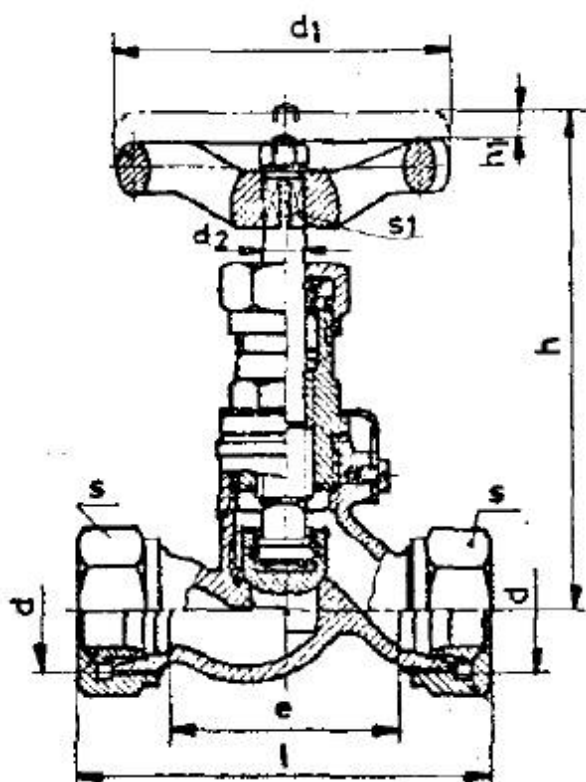
Type A - for steel pipe

Type B - for copper pipe

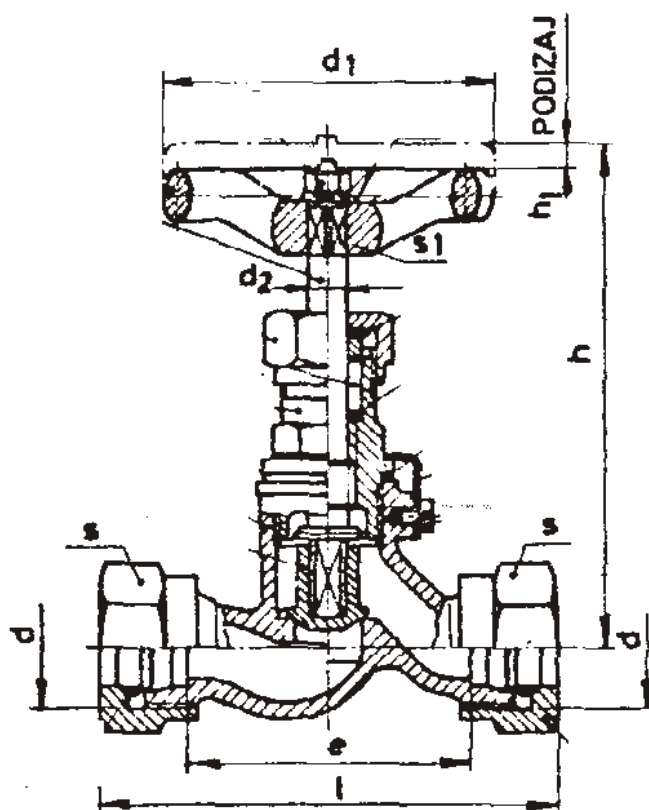
Body : bronze

Internal parts : brass

48 SMT 04



48 SMT 07



Nominal dim.		d	d1	d2	e	h	h1	l	s	s1
DN	pipe dia									
6	10	M18X1,5	50	8,5	45	110	7	78	22	7
8	12	M20X1,5	50	8,5	49	110	7	82	24	7
12	16	M24X1,5	60	9,5	67	130	9	104	30	8
16	20	M30X2	60	9,5	69	130	9	112	36	8
20	25	M36X2	80	11,5	86	150	12	134	46	9
25	32	M42X2	80	11,5	93	150	12	146	50	9

48 SMT 39 - NP 16

48 SMT 40 - NP 16

COCKS (WITH ERMETO FITTINGS)

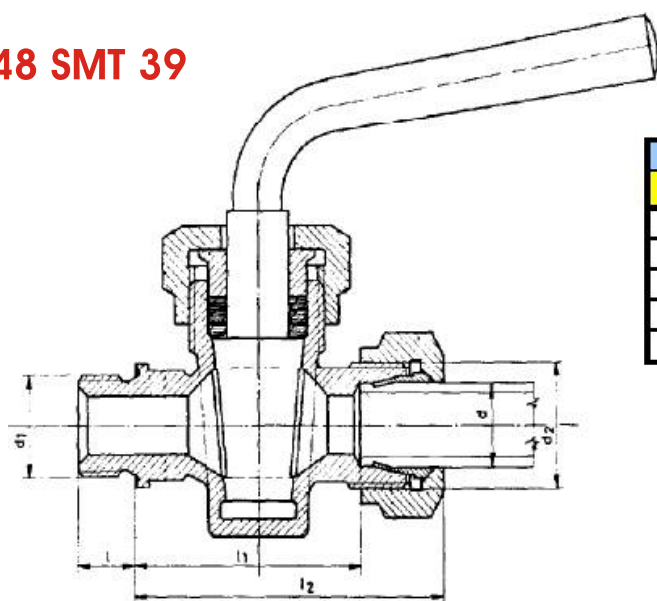


UP TO 80 °C

BODY MATERIAL : BRONZE

INTERNAL PARTS : BRASS

48 SMT 39

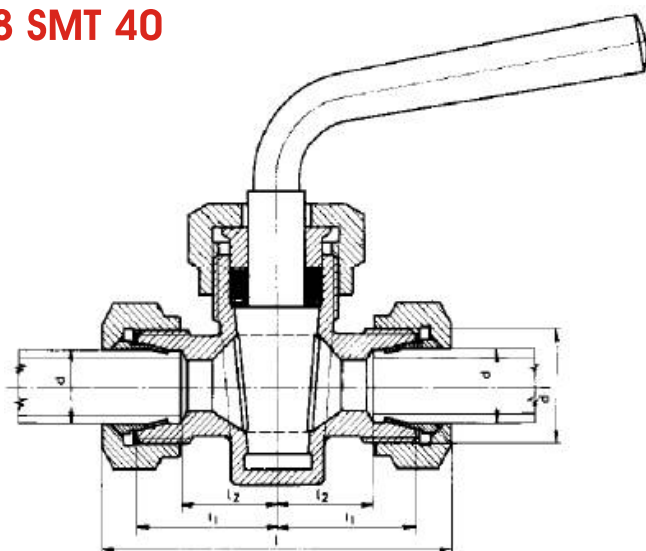


Nominal dim.		d1	d2	l	l1	l2
DN	pipe dia					
6	10	R 3/8"	M18X1,5	12	46	62
8	12	R 1/2"	M20X1,5	14	50	67
12	16	R 3/4"	M24X1,5	16	52	70
16	20	R 3/4"	M30X2	16	65	87
20	25	R 1"	M36X2	18	76	100

Type A - for steel pipes

Type B - for copper pipes

48 SMT 40

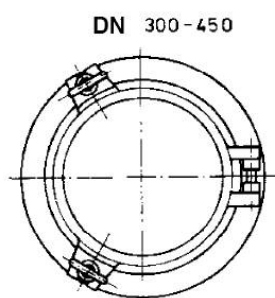
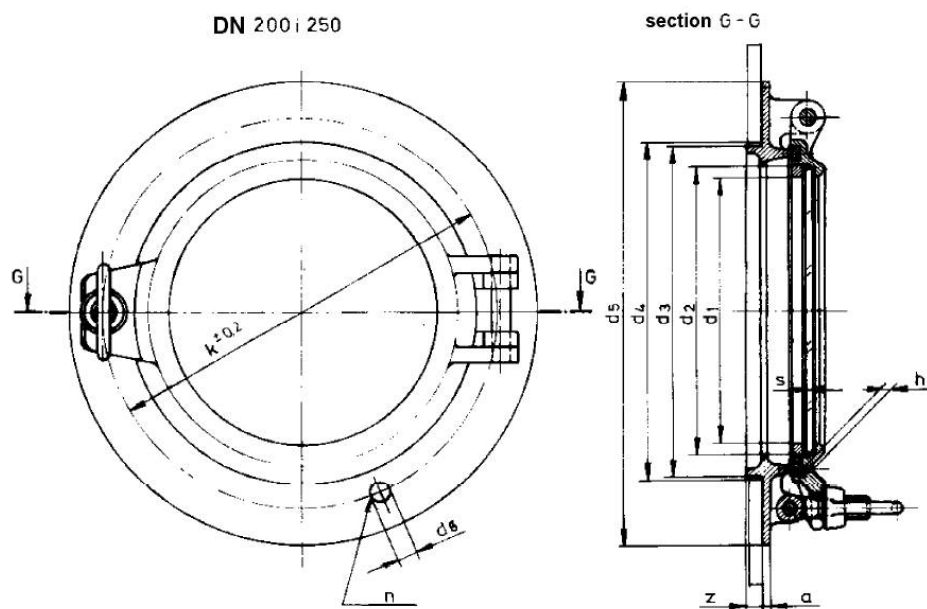


Nominal dim.		d1	l	l1	l2
DN	pipe dia				
6	10	M18X1,5	75	28	21
8	12	M20X1,5	78	30	22,5
12	16	M24X1,5	84	32	23,5
16	20	M30X2	106	42	31,5
20	25	M36X2	116	46	34

Type A - for steel pipes

Type B - for copper pipes

PORTHOLES



Remarks :

L - left side opening

D - right side opening

M - bronze housing

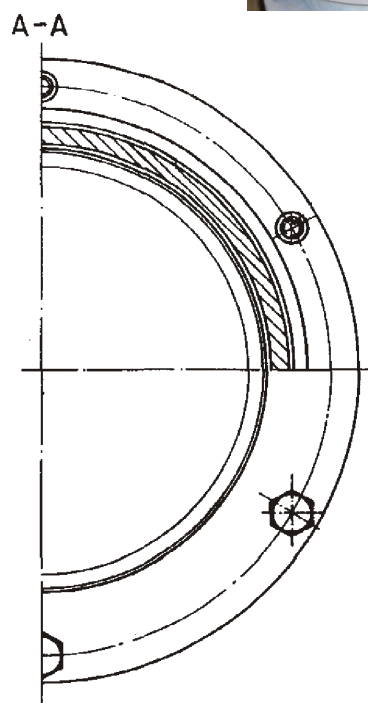
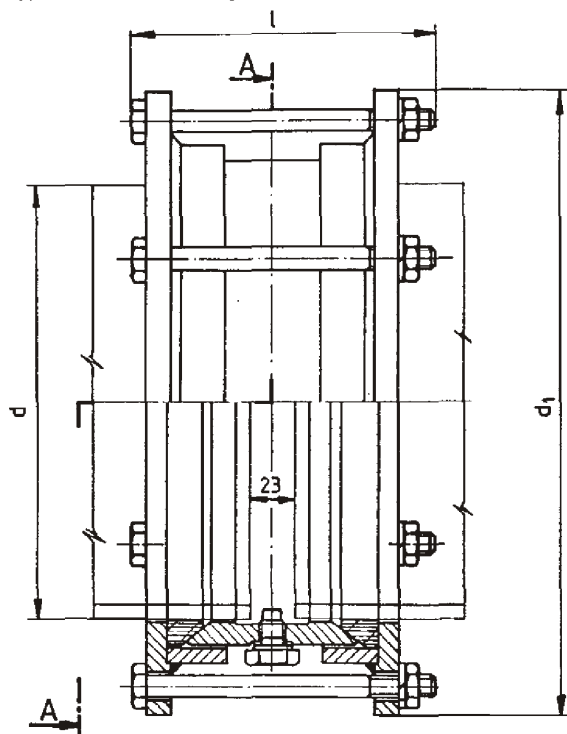
A - aluminium housing

P - clear glass

N - densely glass

DN	a	b	d2	d3	d4	d5	d6	n	h1	h2	k	s
200	10	9	217	250	253	350	17	8	25	18	295	10
250	11	9	267	305	308	400	17	11	30	18	350	10
300	12	12	322	360	363	450	17	12	35	24	410	12
350	12	12	372	410	413	500	17	15	35	24	460	15
400	12	12	422	460	463	550	17	17	35	24	510	19

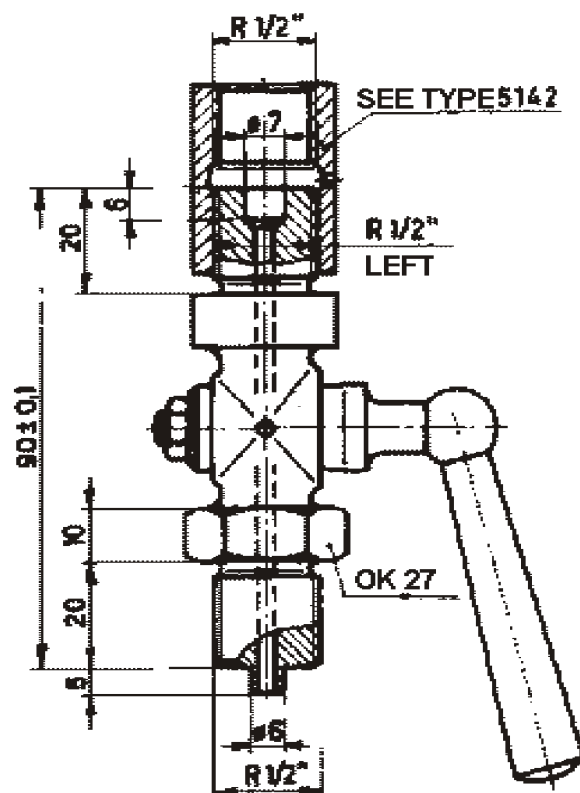
PIPE COUPLINGS FOR STEEL PIPES

Type A : with rubber sealing $30^{\circ}\text{D0} + 90^{\circ}\text{C}$ Type B : with viton sealing $-30\text{ D0} + 160^{\circ}\text{C}$ 

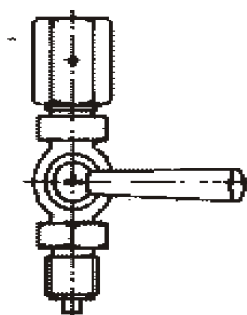
DN	d	tolerance for pipe	d ₁	l
50	60,3	+ 1,6 - 0,4	155	153
65	76,1		170	
80	88,9		185	
100	114,3		210	
125	139,7		235	
150	168,3		265	
175	193,7	+ 2,4 - 0,8	290	158
200	219,1		315	175
250	273		385	
300	323,9		435	
350	355,6		475	
400	406,4		530	245
450	457,2		580	
500	508		630	

Body material : galvanized steel , cast iron

PRESSURE GAUGE COCKS



**AIR DISCHARGE
POSITION**



WORKING POSITION



**MEDIA DISCHARGE
POSITION**

