



# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
VALVE

*Break Away*  
*Brand Valves*

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All Specifications are subject to change without notice

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## COMPANY PROFILE



## MISSION STATEMENT

Industrial Valve and Engineering Supplies (Pty) Ltd (IVES) and VEMCO are totally committed to providing uncompromising quality and dedication.

Besides the professional services and support given, we always maintain that the customer is always right.

# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

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## Company History

Industrial Valve started Trading in 1983

VEMCO started trading in 1979

VEMCO is a level 2 BBBEE Contributor.

Head Office is located in Spartan, Gauteng

Are proud suppliers of our "BMC" "Break Away" brand valves.

Imports stocks and distributes various:

- Piping
- Valves
- Fittings
- Flanges
- Gaskets
- Nuts and Bolts
- Hand and Power Tools

Have branches in Cape Town and Durban

Have an export division supplying into Africa

Have steadily grown from strength to strength in supplying following industries amongst others:

- Petrochem
- Food and beverage
- OEM's
- Process Steam
- Plumbing
- Boiler
- Fire
- Road and rail tankers
- Resellers
- Mines
- Irrigation
- HVAC
- Industrial Contractors
- Large Merchants etc.

Projects supplied:

- Standard Bank JHB2 Stages
- Standard Bank Samrand
- Rosebank Mall
- Ceasers Palace
- Vodacom
- Sasol
- Two Rivers
- Transnet
- Civitas
- One on Whitely
- The Strand hotel Namibia



## **Company Policy**

We are committed to supply our customers with quality locally manufactured and imported products, which conform to established requirements and will strive to meet all contractual commitments to our customers without any partiality or favour.

**Proud suppliers of our  
BMC Brand Valves,  
Pipes and Fittings  
and**

*Break Away*  
**Brand Valves**

# Brass and Related Valves

<b>Page</b>	<b>Product</b>	<b>FIG #</b>
7	Ball Valve Brass BMC Brand	2162i
8	BMC Brass Y Strainer BSP	FIG 28i
9	Check Valve Brass Inline Spring Loaded - Brass Spindle	2260i
10	Check Valve Brass Swing	2232i
11	Gate Valve Brass	2002i
12	Ball Float Valves Brass, Plastic Ball	2706i
13	Pressure Reducing Valve Brass	197i
14	Footvalve - Brass	33i
15	Bibtap Brass Hose Bibtap	2102pi
16	Airvent - Brass	airventi
17-18	Gauge Cocks - Brass	2910i
19	Safety Valves in Brass	2302
20-21	Balancing Valves Ductile Iron and Brass	BALi
22	Sisco Test Points	

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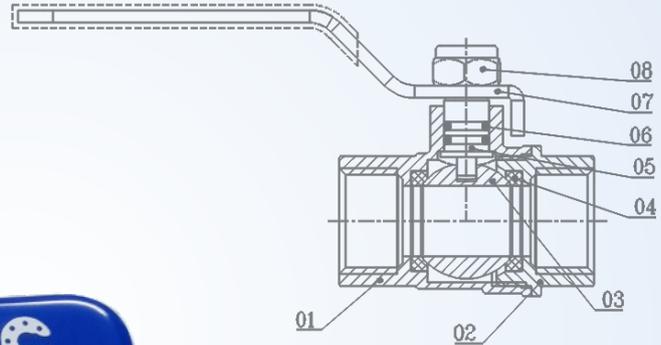
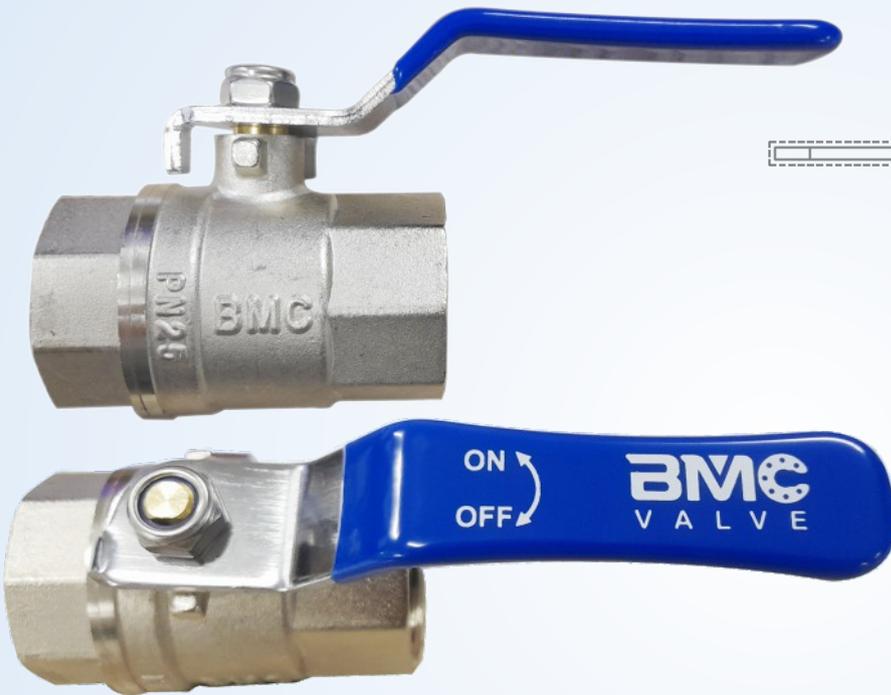
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FIG 2162I

BMC Brass CP Ball Valve PN 25

Technical Standard
1. Nominal Pressure 25 Bar
2. Working Medium: Water, Gas
3. Working Temperature: -20°C (lagged) to 100°C
4. Thread Standard: ISO228 (Equivalent to DIN 259 and BS2779)



Item No	Size	DN	L	D	H	PN	Weight	Pcs/ Carton
2162I	1/4 "	10	42	82	44	25	128g	216
	3/8"	10	42	82	44		118g	216
	1/2"	14	51	90	42		173g	144
	3/4"	18	58	98	46.5		245g	96
	1"	23	66.4	105	51.8		375g	60
	1-	30	76	130	61.2		600g	36
	1-	36	87	130	66.2		850g	24
	2"	48	100	145	78		1285g	12
	2-	69	127.1	215	102.7		2650g	4
	3"	63	141	215	110.5		3600g	2
4"	79	167	245	132	6390g	2		

item	parts	material
1	body	Forging Brass
2	bonnet	Forging Brass
3	ball	Brass
4	Ball seat	P.T.F.E
5	Stem	Brass
6	O-ring	N B R
7	Handle	Chrome plated iron handle
8	Nut	Lockable Nut

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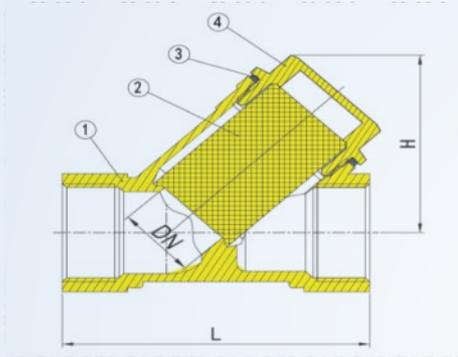
*Break Away*  
Brand Valves

FIG 28i

BMC Brass Y Strainers BSP PN 16



28I STRAINER BRASS



ITEM NO.	Component	MATERIAL
1	Body	Forged Brass
2	Filter	Stainless steel
3	Gasket	P.T.F.E
4	Plug	Brass

ITEM	THREAD SIZE	L	H	DN	PN	Weight	pcs/cart
28I	1/2"	50	39	12	16	110g	192
	3/4"	58.5	42.5	16.5		160g	120
	1"	69	51	20		260g	72
	1-1/4"	92.5	67.5	30		580g	36
	1-1/2"	100.5	76	32.5		800g	24
	2"	112	90	40.5		1350g	12
	2-1/2"	144.5	107.5	57.5		1950g	12
	3"	162	128	70.5		2950g	6
4"	182.5	156	84.5	4800g	4		

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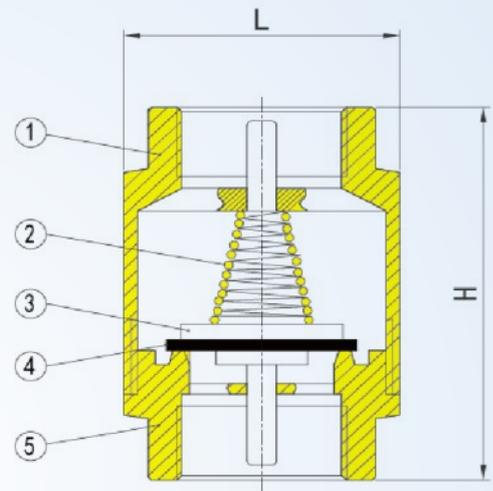
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## FIG 2260I BMC BRASS SPRING LOADED INLINE NON RETURN VALVE

Min and Max Working temperature:  
-10 Deg C to 120 Deg C  
Threads:  
ISO228 (Equivalent to Din259 and Bs2779)  
PN16

Suitable for domestic water services,  
heating and air-conditioning plants,  
compressed air services - away from the compressor.  
Can be fitted horizontally, vertical or oblique.



ITEM	THREAD SIZE	L	H	DN	PN	Weight	Pcs/Carton
2260i	1/2"	32.5	46.5	17	16	120g	216
	3/4"	36	50	19		160g	144
	1"	41.5	53	23		210g	72
	1-1/4"	54	59.5	28		370g	42
	1-1/2"	64	63.5	33.5		570g	36
	2"	74.5	70.5	40.5		800g	18
	2-1/2"	95.5	93	66		1600g	8
	3"	110	100	68		2100g	4
4"	145	109	98	3800g	2		

ITEM NO.	Component	MATERIAL
1	Body	Forged Brass
2	Spring	304Stainless steel
3	Disc	Brass
4	Rubber gasket	N.B.R
5	Bonnet	Forged Brass

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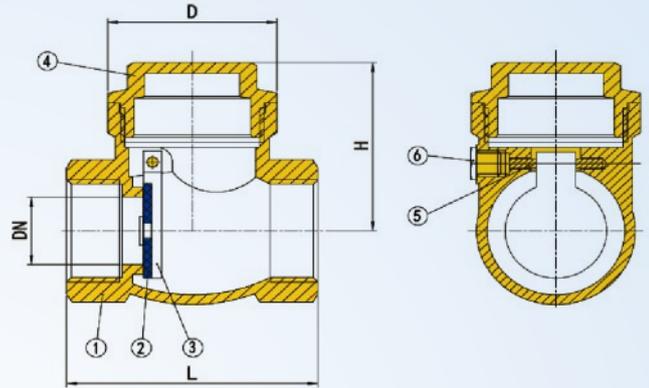
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FIG 2232I

BMC BRASS SWING 'TYPE' CHECK VALVE PN 16



Item	Parts	material
1	Body	Forged Brass
2	Disc gasket	Stainless steel
3	Disc	Brass
4	Bonnet	N.B.R
5	Hinge Pin	Forged Brass
4	Bonnet	N.B.R

ITEM	THREAD SIZE	L	H	DN	PN	Weight	Pcs/Carton
2232I	1/2"	43.5	34.5	12	16	120g	216
	3/4"	51	38.5	17		170g	144
	1"	57	41.5	19.5		250g	72
	1-1/4"	66	48	28.5		480g	42
	1-1/2"	74.5	52.5	30.5		600g	36
	2"	82.5	62	40		950g	18
	2-1/2"	94	73.5	50		1600g	8
	3"	111.5	80.5	60		2100g	4
	4"	132	104	83		3800g	2

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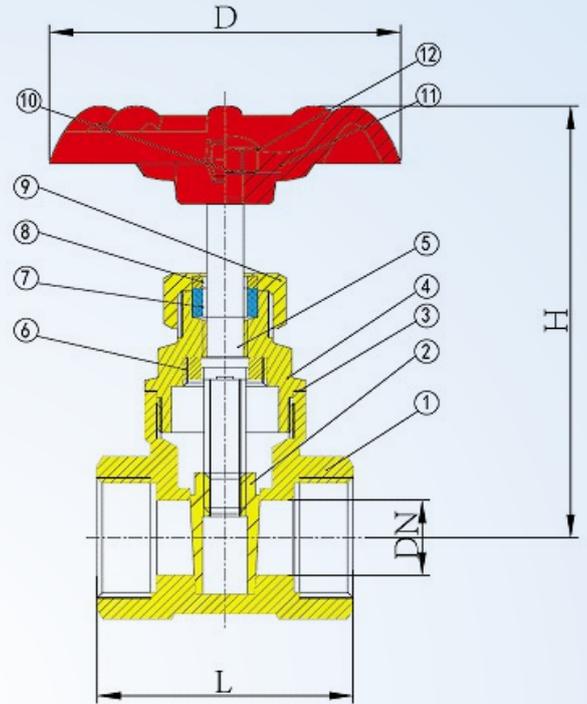
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**FIG 2002I BMC BRASS SCREWED GATE VALVE WORKING PRESSURE 16 BAR**

PN 16  
-10 To 120 Deg C



ITEM	THREAD SIZE	DN	D	H	L	depth of thread	PN	Weight	pcs/carton
2002I	1/2"	13	53	63	39	10	16	210g	100
	3/4"	15	59	65	40	10		260g	90
	1"	17	59	68	45	12		360g	70
	1-1/4"	22	65	76	49	13		480g	50
	1-1/2"	28	73	88	53	14		650g	40
	2"	35	73	100	60	16		1010g	20
	2-1/2"	53	100	165	80	22		2320g	12
	3"	60	110	175	84	23.5		2700g	8
4"	75	140	210	92	26	4780g	6		

ITEM NO.	Component	MATERIAL
1	Valve body	Forged Brass
2	Flashboard	Forged Brass
3	Filter piece	P.T.F.E
4	Bonnet	Forged Brass
5	Screw	Forged Brass
6	Press cap	Forged Brass
7	filler	P.T.F.E
8	Copper washer	Forged Brass
9	Press cap	Forged Brass
10	Name plate	Aluminium
11	Handleweel	Steel
12	Nut	Steel

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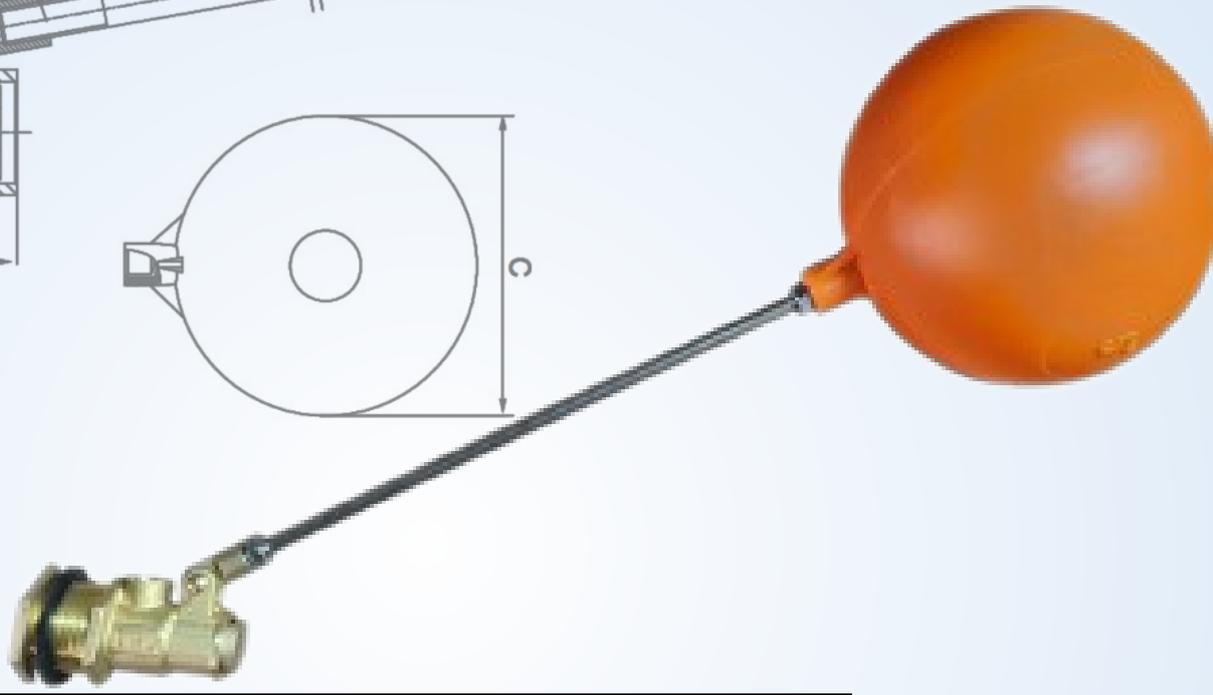
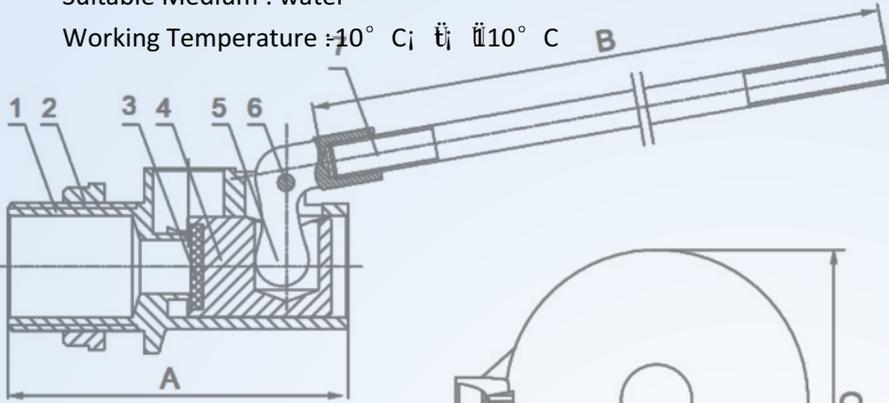
### FIG 2706I BMC BRASS BALL FLOAT VALVE

**Specification**

Working Pressure: 16 Bar (232 psi)

Suitable Medium : water

Working Temperature : -10° C ; t<sub>i</sub> t<sub>i</sub> 110° C



Parts	Description	Material
1	Body	Forged Brass
2	Nut	Forged Brass
3	Washer	Silicone gel
4	Valve Core	Brass
5	Stem Handle	Brass
6	P h	304 stainless steel
7	Stem	stainless steel

ITEM	THREAD SIZE	A	B	C	PN	Weight	pcs/carton
2706	1/2"	55	M6*180	4-1/2"	16	204g	80
	3/4"	56	M6*200	5"		280g	60
	1"	74	M8*270	6"		413g	27
	1-1/4"	79	M8*270	6"		683g	27
	1-1/2"	83	M10*300	8"		836g	27
	2"	90	M10*300	10 "		1247g	8

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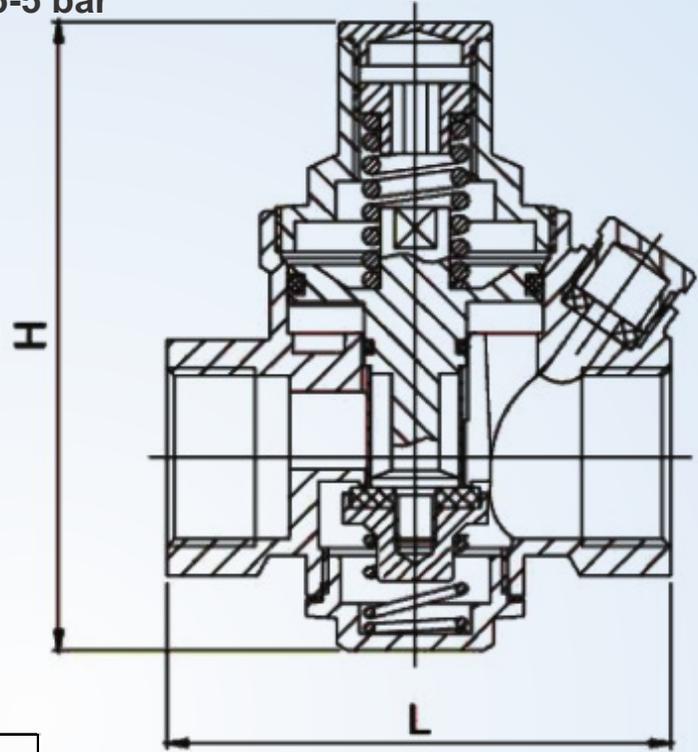
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### FIG 197I BMC BRASS PRESSURE REDUCING VALVE

Max Working Inlet Pressure: 16 Bar  
Outlet Range: 0.5-5 bar



TEST PRESSURE		Mpa
API 598	SHELL	SEAT
HYDROSTATIC	2.4	1.76
AIR		--

DN	SIZE	DN	L	H	Weight
15	1/2"	19	71	90	420g
20	3/4"	24.5	70	90	450g
25	1"	31	76	110	630g
32	1-1/4"	39	82	115	800g
40	1-1/2"	45	102	150	1200g
50	2"	57	108	150	1800g

item	parts	material
1	body	brass
2	bonnet	brass
3	Spring 1	Silicon manganese 60/2 steel spring
4	Spring 2	304 Stainless steel
5	Stem	brass

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**FIG 33I**

**BRASS SCREWED FOOT VALVE**

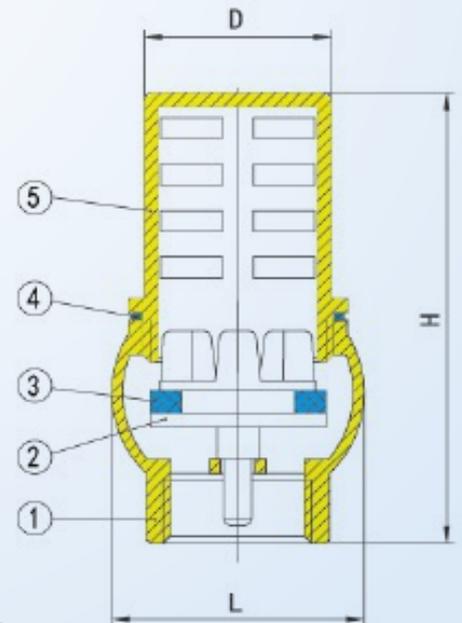
### TECHNICAL SPECIFICATION

Main Material: Forged Brass  
 Thread Confirmed to ISO228  
 Working Temperature:  $-20^{\circ}\text{C} \leq t \leq +110^{\circ}\text{C}$   
 Working Pressure: 1.6MPa  
 Working Medium: Water



ITEM NO.	Component	MATERIAL
1	Body	Forged Brass
2	Disc	Forged Brass
3	Rubber gasket	NBR
4	Red paper pad	Red steel paper
5	filter	Brass

ITEM	THREAD SIZE	L	H	DN	PN	Weight	pcs/ctn
2260i	1/2"	35.7	64.5	15	16	120g	180
	3/4"	42.1	75.5	20		175g	108
	1"	44.0	78.0	25		220g	108
	1-1/4"	56.6	96.5	32		345g	48
	1-1/2"	62.5	107.0	40		450g	36
	2"	78.0	119.0	50		650g	18
	2-1/2"	90.0	137.0	65		1200g	14
	3"	111.0	145.5	80		1650g	8
	4"	140.0	182.0	100	3300g	3	



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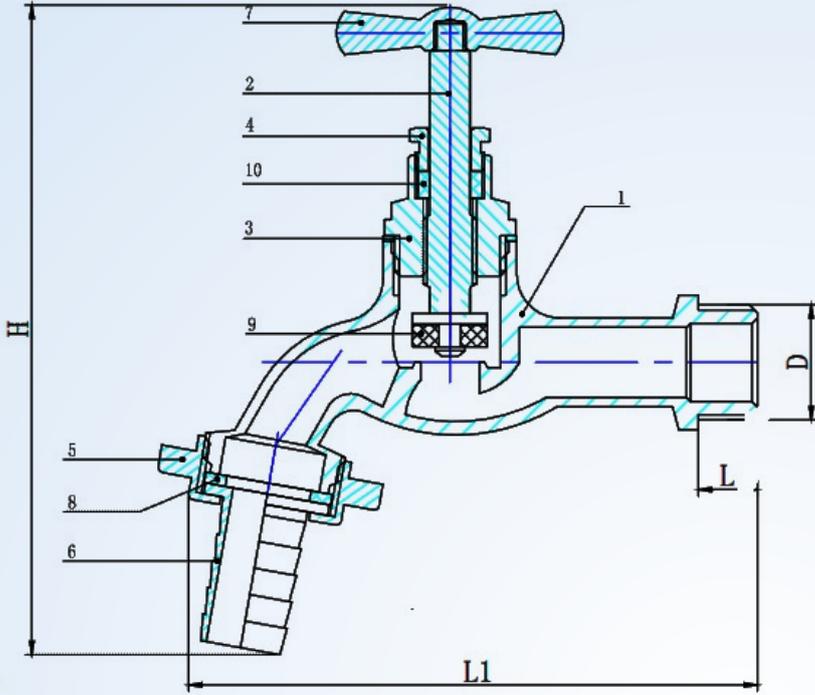
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FIG 2102PI

BRASS BIB TAPS



parts	material
Sand casting body	Sand casting Brass
Stem	forging brass
Screw unt	brass
Press nut	brass
Connector	brass
Hose union	brass
Handle	brass
Hose union gasket	NBR
Sealing gasket	E.P.D.M
Sealing gasket	NBR



SIZE	D	L	L1	H	Hose union Dia	Weight	pcs/carton
1/2" Male BSP Inlet x 3/4 BSP Male Outlet	DN15	12	105	128	20mm=3/4"	260g	72
3/4" Male BSP Inlet x 3/4 BSP Male Outlet	DN20	12	105	128	20mm=3/4"	280g	72

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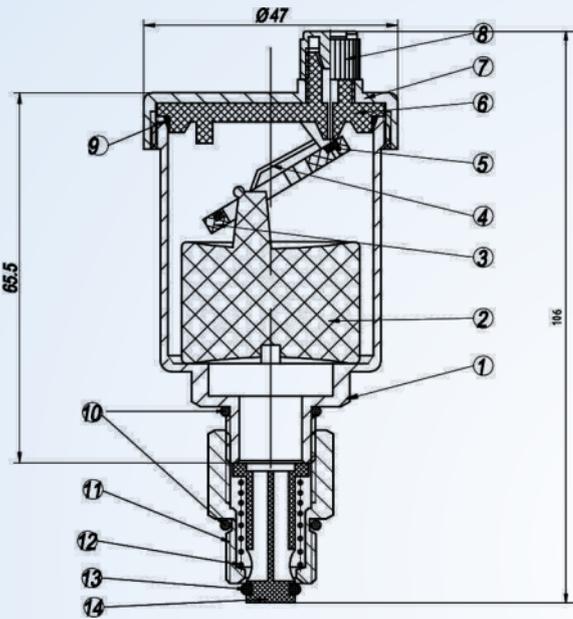
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### FIG AIRVENTI BRASS AIR VENT SCREWED BSP

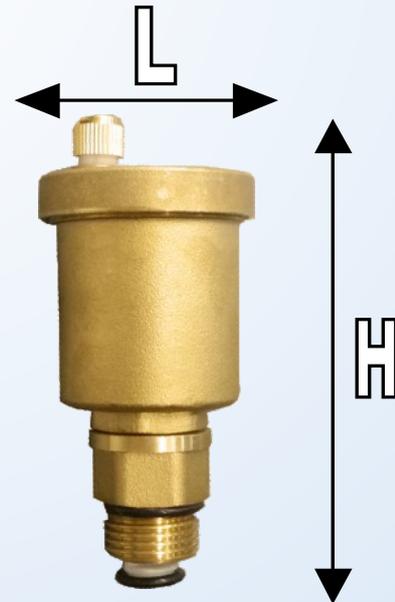
MAX WORKING PRESSURE WATER :10 BAR

MAX TEMPERATURE : 110 DEG C



item	parts	material
1	body	brass
2	float ball	Plastic
3	Joint	POM
4	spring	304 stianless steel
5	gasket	silica gel
6	plastic cover	pom
7	valves bonnet	brass
8	valves bonnet	brass
9	sealing O ring	EPDM
10	sealing O ring	EPDM
11	check valve joint	POM
12	O ring	EPDM
13	Spring	304 stianless steel
14	Check valves body	brass
15	outer O ring	EPDM

DN	SIZE	H	L	Weight g
DN10	3/8"	102	47	200
DN15	1/2"	102.5	47	300



ISO228(equivalent to DIN 256 and BS2779)

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
VALVE

*Break Away*  
Brand Valves

## FIG 2910I

## BMC GAUGE COCK

### Applications

Shut-off device for pressure measuring instruments,  
measurement of liquids, gases and vapours

### Special features

- Reliable and cost-effective
- Nominal pressures to  $\leq 25$  bar
- Operating temperature  $\leq 50$  °C

### Description

Gauge cocks provide the opportunity to either vent the connected pressure gauge according to the position of the handle (venting position), i.e. put it into a pressure-free state, or to vent the pressure measuring instrument under pressure (operating position) or to let the medium escape (blow position). For higher pressures shut-off valves must be used.

### Standard version

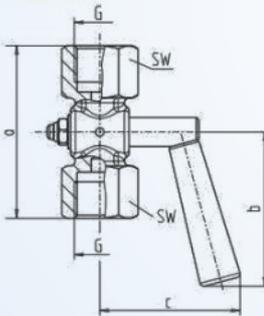
**Cock case:** Brass

**Handle:** installed in the case with silicon free grease

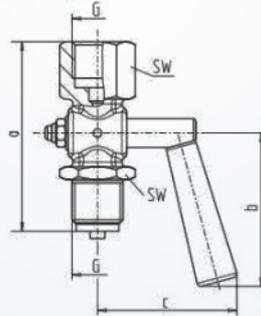
**Thread:** BSP

Standard Stock Item is Female Female

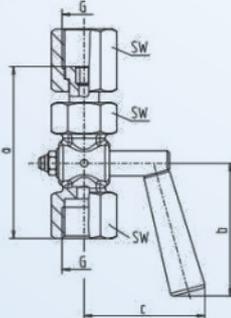
Female / female



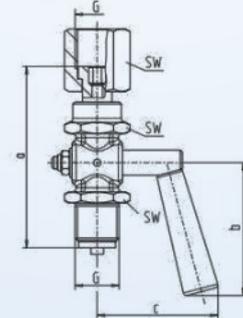
Female / male



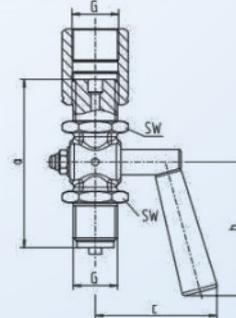
Union nut / female



Union nut / male



LH-RH adjusting nut / male



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FIG 2910I

BMC GAUGE COCK

	Design	Entry per EN 837-1	Dimensions in mm			SW	Weight in kg
			a ±3	b ±3	c ±3		
Standard Version	Female / female	G ¼	48	29	30	17	0.06
	Female / male	G ¼	51	29	30	17	0.06
Standard Version	Female / female	G ½	71	64	57	27	0.25
	Female / male	G ½	78.5	64	57	27	0.28
	Union nut / female	G ½	82	64	57	27	0.32
	Union nut / male	G ½	87	63.5	57	27	0.33
	LH-RH adjusting nut / male	G ½	87	63.5	57	27	0.40
Standard Version	Female / female	G ¾	62	64	43	22	0.14
	Female / male	G ¾	60	64	43	22	0.12
	LH-RH adjusting nut / male	G ¼	55	29	30	17	0.07

## Ordering information

	Code	Example
<b>Basic Model</b>	PGV	121A

PGV means brass pressure gauge cock(valve)

### Process connection

1/4"BSP	2B	2B
1/4"NPT	2N	
1/4"BSPT	2T	
3/8"BSP	3B	
3/8"NPT	3N	
3/8"BSPT	3T	
1/2"BSP	4B	
1/2"NPT	4N	
1/2"BSPT	4T	

### Pressure range

Male thread	M	M
Female thread	F	

### Options

Special connection	SC	
--------------------	----	--

**Example:**

**PGV2BM2BF**

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

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**FIG 2302**

**BREAKAWAY SAFETY VALVE**

### FEATURES

Trim: REPLACEABLE SILICONE SEAL TRIM  
B.S.P THREADS TO BS 21 TAPER  
MANUFACTURED IN SOUTH AFRICA

WORKING PRESSURE (BAR) NON SHOCK

MAX WORKING PRESSURE NON SHOCK		HYDROSTATIC TEST PRESSURE	
MAX STEAM	NOT SUITABLE	SHELL	SEAT
MAX W.O.G.	8 BAR @ 0 TO 200 DEG C	28 BAR	10 BAR



Valves can be set on request

ITEM	SPECIFICATION
BODY	BR-BS2872
SEAT	BR-BS2872
CLACK	Silicone
ADJUSTING SCREW	BR-BS2872
LOCK NUT	BR-BS2872
SPINDLES	BR-BS2872
RING	CHROMED M/S
SPRING	SS-GR304

SIZE BSP	L	H	MASS grams
8	78	56	45
10	78	60	65
15	78	65	120

SPRING RANGE		
LIGHT	SILVER	0-200 KPA
MEDIUM	GOLD	100-1000 KPA
HEAVY	BLUE	750-1750 KPA
X-HEAVY	RED	1500-2500 KPA

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

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### FIG BALI BALANCING VALVES SCREWED

#### 951 FIXED ORIFICE DOUBLE REGULATING VALVE(FODRV)

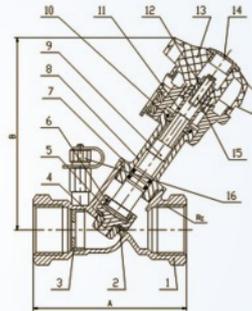
- ◆ Pressure Rating:PN25
- ◆ Working Medium:Water
- ◆ Working Temperature:t≤120°C
- ◆ Taper Pipe Thread To ISO7
- ◆ Comply with BS7350

#### Specification

The Fixed Orifice Double Regulating Valve offers an accuracy of ± 5% on all settings, for precise flow regulation. They are Y-pattern globe valves with characterised throttling disc tending towards equal percent- age performance. Fixed Orifice Double regulating feature allows valve opening to be set with an Allen key. Operation of the valve is by means of the Microset hand wheel.

#### Application

In multiple unit systems, the 951 has sufficient authority to give effective regulation over the range of flows covered by matching flow measurement devices/valves.



#### Bill of Materials

Sequence	Description	Material	Sizes
1	Body	Bronze CC491K	All
2	Disc Face	P.T.F.E	1" -2"
2	Disc Face	DZR Brass CW602N	1/2" - 3/4"
3	Orifice Plate	DZR Brass CW602N	All
4	Nut	DZR Brass CW602N	All
5	Disc	DZR Brass CW602N	All
6	Disc Retaining Ring	DZR Brass CW602N	All
7	O Ring	N.B.R	All
8	Bonnet	DZR BRASS CW602N	1/2" -1 1/4"
8	Bonnet	Bronze CC491K	1 1/2" -2"
9	Stem	DZR BRASS CW602N	All
10	Retainer Ring	Stainless Steel 304	All
11	Sleeve	Brass CW617N	All
12	Screw	Brass CW614N	All
13	Handwheel	PA	All
14	Cap	PA	All
15	Screw	Stainless Steel 304	All
16	Test Points	DZR BRASS CW602N	All

#### Dimensions & Coeffients

951						Weight (kg)
DN	INCH	A	B	Flow (kv)	Kvs	
15	1/2"	87	105	1.72	2.2	0.58
20	3/4"	96	106	2.97	4.6	0.65
25	1"	100	127	4.75	8.5	0.89
32	1 1/4"	114	128	10.25	16.7	1.11
40	1 1/2"	125	143	16.83	26.1	1.46
50	2"	146	144	27.26	43.2	1.98

FOR SIZING AND SETTING OF VALVES PLEASE CONTACT US FOR THE COMAP BALANCING VALVE PROGRAM

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

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## FIG BALI BALANCING VALVES FLANGED

### 9201 FIXED ORIFICE DOUBLE REGULATING VALVE (FODRV)

- Pressure Rating: PN16
- Working Medium: Water
- Working Temperature :- 10~120° C
- Flange to BSEN 1092-2
- Comply with BS7350

#### Specification

Y- Pattern globe valve with characterised throttling discs and ends flanged to BS EN 1092-2 PN16

The valve opening may be set to control flow at a predetermined rate  
Operation of the valve is by means of a handwheel incorporating a micrometer device

The Double Regulating feature allows the valve to be used for isolation and to be reopened to its preset position to maintain required flow

#### Application

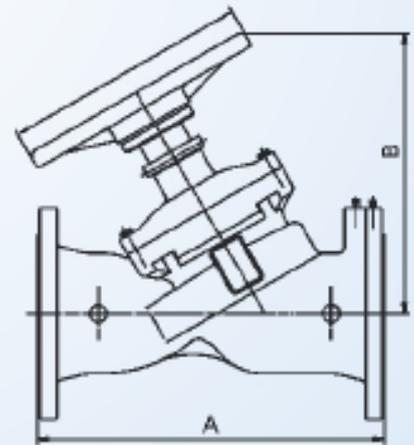
In two unit systems, the 9201 has sufficient authority to regulate flow in circuits incorporating a flow measurement device.

#### BILLOFMATERIALS

DESCRIPTION	MATERIALS	SPEC	SIZE
Body	Ductile Iron	EN-JL 1050	ALL
Bonnet	Ductile Iron	EN-JL 1050	ALL
Stem	Stainless Steel	BS970-410S21	ALL
Disc	EPDM Coated DI	EN-JL 1050	ALL
Gland	Brass	EN 12165 CV617N	65-150MM
Gland	Ductile Iron	EN-JL 1050	200-300MM
Stem Nut	Brass	EN 12165 CV617N	ALL
Handwheel	Ductile Iron	EN-JL 1050	ALL
Test Points	Brass	EN12165 CV602N	ALL
Orifice Plate	Brass	EN12165 CV617N	ALL
Packing	Graphite	Non - Asbestos	ALL

#### DIMENSIONS & COEFFICIENTS

9201							
DN	INCH	A	B	FLOW (KV)	K/S	HEADLOSS (K)	WEIGHT
65	2 1/2"	290	265	104	104	5.32	17
80	3"	310	270	112	116	6.48	20
100	4"	350	310	162	213	13.15	29
125	5"	400	340	254	333	8.32	40
150	6"	480	340	335	476	7.33	52
200	8"	600	537	535	768	8.26	113
250	10"	730	570	1099	1153	7.27	185
300	12"	850	690	1588	1743	8.36	248



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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

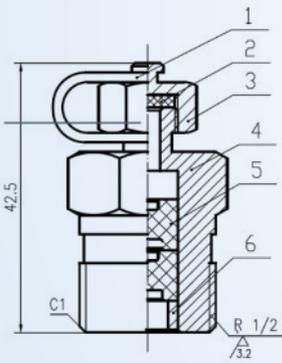
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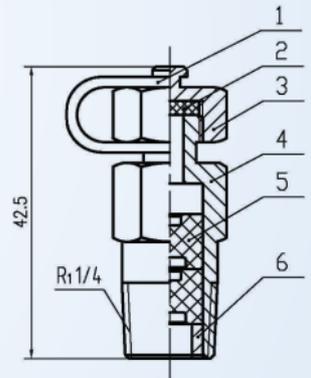
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FIG : SISCO

BINDER DZR TEST POINTS



ITEM NO	ITEM	MATERIAL	Shore Hardness tester A
1	TIE	TPEE	
2	SEAL	EPDM	70 +- 5
3	CAP	CW617N	
4	BODY	CW602N	
5	CAP WASHER	EPDM	70 +- 5
6	RETAINING RING	CW602N	



- 1: The dimension for hexagonal substance is between 14.15 mm - 14.29 mm, including the body and cap. DR material is zinc removal test
- 2: Tensile strength: 360.1 Mpa; yield strength 212.02 Mpa; elongation >33.33%
- 3: Working temperature : Max 120 Deg c, Working pressure: Max 2.5 Mpa; Test pressure : 3.8 Mpa
- 4: Test points should have no leakage using 3mm and 1.6mm probes . Tested 50 times.

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

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## Cast Iron and Related Valves

Page	Product	FIG #
23-27	Ball Float Control Valve Cast Iron Flanged	2706fci
28	Pressure Reducing Valve Cast Iron Flanged for Water	7240fi
29-31	Pressure Reducing Valve Scr BSP for Steam	7250
32	Ball Valve Cast Iron Flanged	7
33	Check Valve - Wafer Double Door Cast Iron	7331wi
34	Check Valve - Cast Iron Flanged Ball	
35	Strainer Cast Iron Y Pattern	12
36	Strainer, Cast Iron Flanged	7754finp
37-38	Butterfly Valve Cast Iron, Lever and Gearbox Operated, DI NP / SS 304 Discs	7777inp /ss 7778inp /ss
39	Butterfly Valve Cast Iron Viton Liner	7777iv
40	Butterfly Valve Cast Iron "Special" For Cement	7777ISSC01/100
41	Gate Valve , Wedge Type , Brass Trim, Non Rising Spindle, Flanged # 9	9
42	Gate Valve , Wedge Type , Brass Trim, Rising Spindle, Flanged # 10	10
43	Gate Valve RSV 664, Non rising Spindle, Flanged	RSV664
44	Gate Valve RSV 665, Rising Spindle, Flanged	RSV665
45	Diaphragm Valves - Flanged 50-150	# 7520FFF
46	Diaphragm Valves - Flanged 200	# 7520FFF
47	Diaphragm Valves - Screwed	# 7520I SCR
48-49	Relief Valves in Cast Iron	# 2351
50-51	Safety Valves in Cast Iron	# 2361
52	SS Barstock Ball Valves	# 4164i
53	Ball Valve 2 Piece Full Bore Scr BSP SS 304 Lockable	# 4164i/2
54	Ball Valve 3 Piece Full Bore Scr BSP SS 316 Lockable	# 4164i/3
55	Ball Valve 2 Piece Flanged SS 316 Lockable 4	# 4661fi
56	Tank Level Indicator in SS	# 4733/317
57	Steam Trap Thermodynamic SS 410	# 20ss
58-59	Globe Valve, Bellows Seal , Ductile Iron Flanged	# 7755bsi
60-62	Steam Trap Cast Iron - Inverted Bucket Scr BSP	# 21
63	Knife Gate valves	# 11RS

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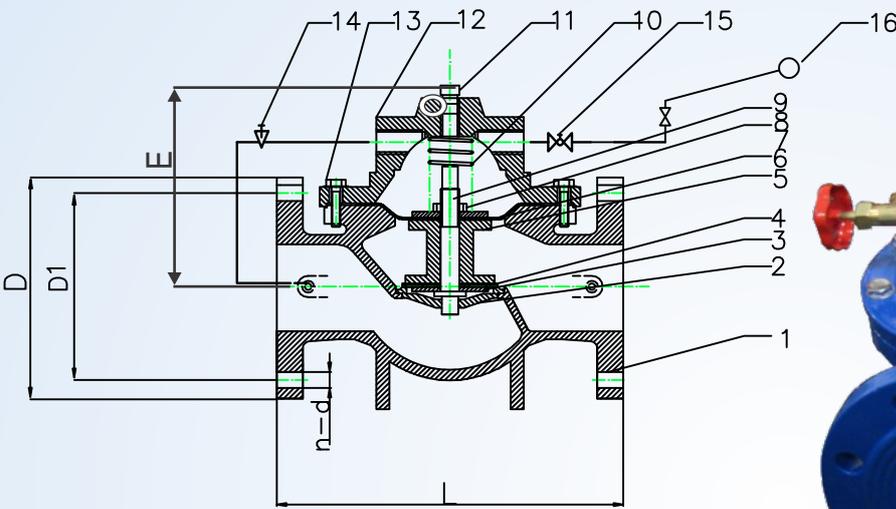
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Brand Valves

**FIG 2706FCI BMC LARGE CAPACITY FLOW RATE REMOTE FLOAT CONTROL VALVE**

**TEST PRESSURE (Bar)**

API 598	SHELL	SEAT
HYDROSTATIC	24	17.6
AIR		--

Max Pressure Water : 16 Bar  
Max Temp Water : 80 Deg C  
Min Inlet Pressure : 2 Bar



No	Part	Material
1	Body	DI
2	Seat	Brass
3	Platen	Carbon Steel
4	Seal	EPDM
5	Disc	DI
6	Diaphragm	EPDM
7	Platen	Carbon Steel
8	Nut	Stainless Steel
9	Stem	Stainless Steel
10	Spring	Stainless Steel
11	Plug	Brass
12	Bonnet	DI
13	Bolts	Stainless Steel
14	Needle	Brass
15	Globe Valve	Brass
16	Float Valve	Stainless Steel

Note: Valves Are Undrilled

DN	L	D	E	Weight Kg
50	215	165	140	9.5
65	235	185	155	15
80	250	200	160	16
100	290	220	170	20
150	360	285	240	37
200	420	340	270	65
250	450	405	340	121
300	510	450	435	162

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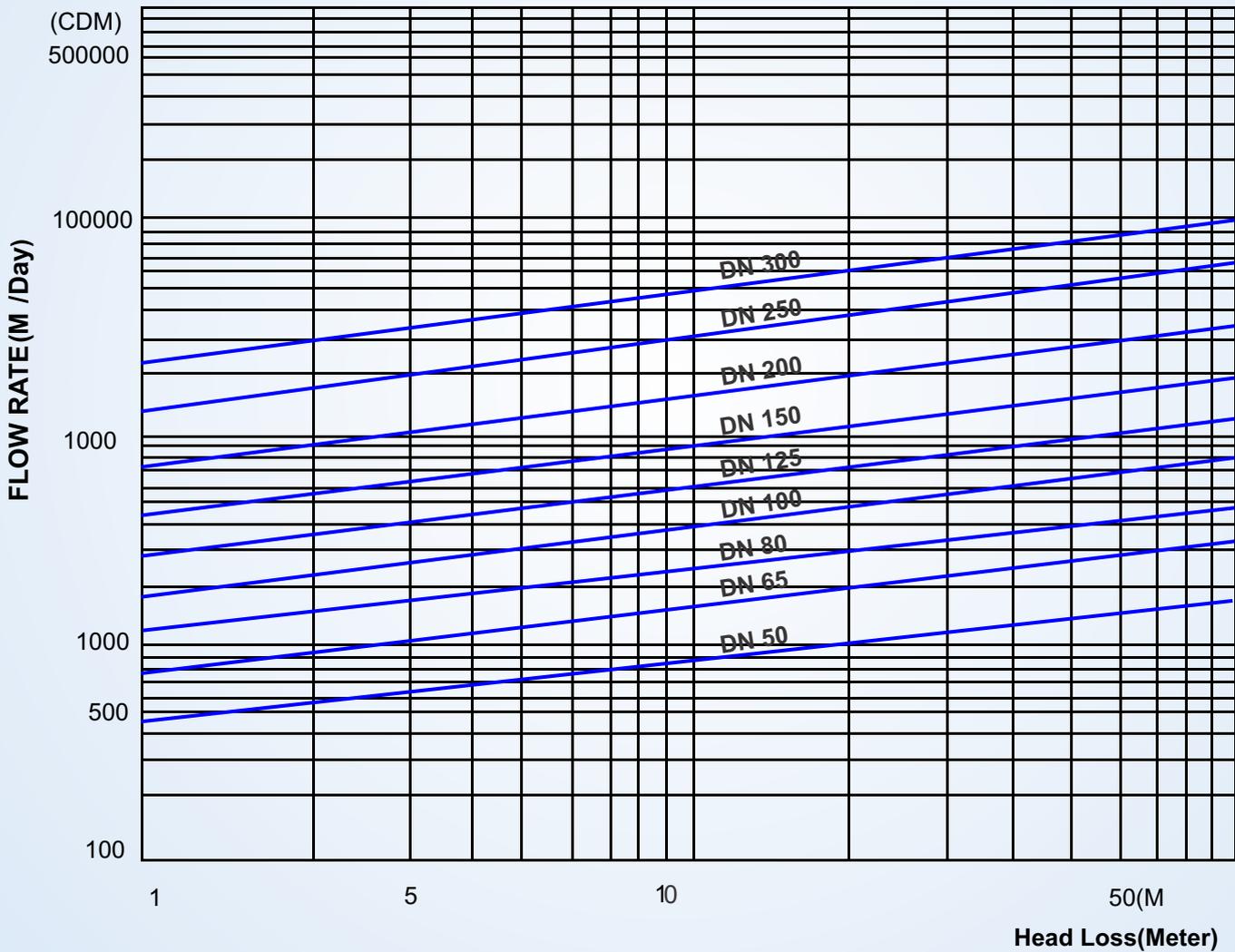
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FIG 2706FCI BMC LARGE CAPACITY FLOW RATE REMOTE FLOAT CONTROL VALVE

### Flow Chart



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## FIG 2706FCI BMC LARGE CAPACITY FLOW RATE REMOTE FLOAT CONTROL VALVE

### FLOAT CONTROL VALVE

#### Overview

A float valve is used to shut off the flow of liquids, normally water, at a pre-determined level. When adjusted and working properly a float valve is very accurate and extremely reliable.

When the water tank (pool) water rises to the set height, float ball to close the float valve to control the indoor water pressure, and promote the main valve closed, the water supply stops.

When the water drops, the float valve re-open the control room pressure drop, the main valve to open again to continue the water supply to maintain the liquid level of the set height.



#### Structure

<b>Structure</b>	Diaphragm
<b>Working temperature</b>	0°C - 80°C
<b>Working pressure</b>	PN10/PN16/PN25
<b>Tubes/pilot valve</b>	Brass
<b>Seat</b>	Brass
<b>Spring/stem</b>	Stainless steel
<b>Bolts/washer</b>	Stainless steel
<b>Painting</b>	Epoxy powder coated min 250µm
<b>Body/Cover material</b>	Cast iron/Ductile iron
<b>Medium</b>	Water
<b>Port size</b>	DN25-DN800 (1" to 32")
<b>End flange connection</b>	BS EN1092 PN10/PN16/PN25; ANSI Class125/150 FF/RF

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
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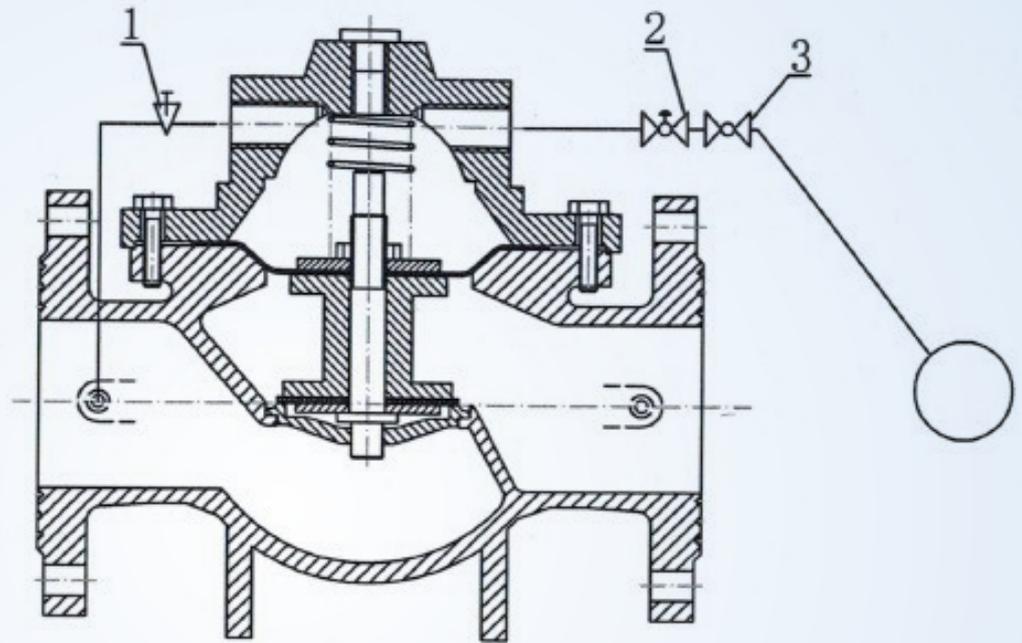
**FIG 2706FCI BMC LARGE CAPACITY FLOW RATE REMOTE FLOAT CONTROL VALVE**

## Application

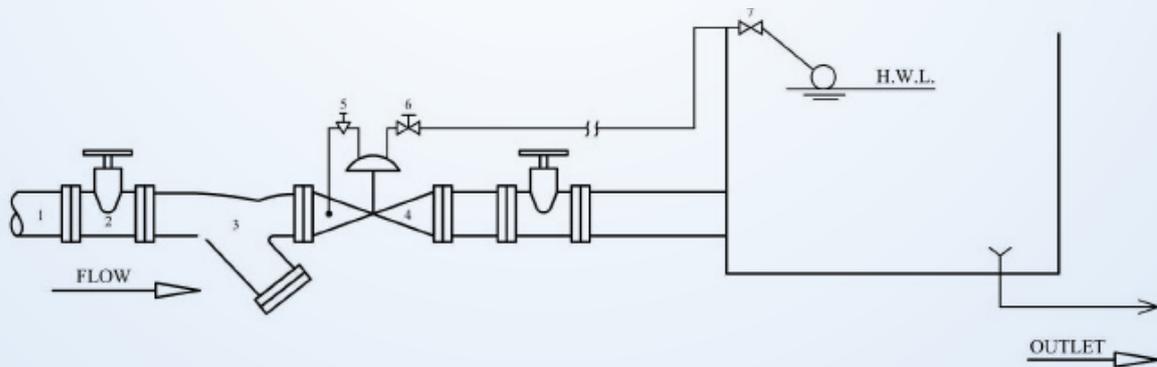
Suitable for water supply, Drainage & water circulation, Air-conditioning, Fire-fighting & Irrigation system, High-rise building and living area.

## Drawing

- 1. Needle Valve
- 2. Ball Valve
- 3. Float Pilot Valve



## Installation Example



- 1. Main Supply Line
- 2. Gate Valve/Globe Valve
- 3. Y Strainer
- 4. Float Control Valve/Main Valve
- 5. Needle Valve
- 6. Ball Valve
- 7. Float Pilot Valve

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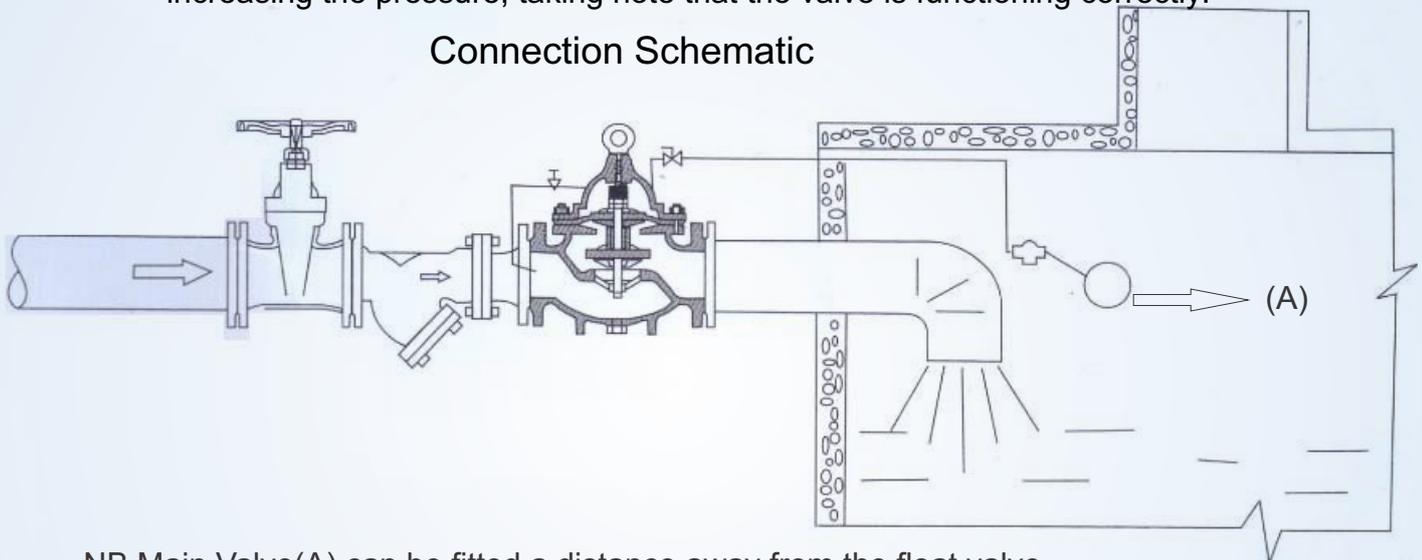
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## FIG 2706FCI BMC LARGE CAPACITY FLOW RATE REMOTE FLOAT CONTROL VALVE

- 1) Installation and Maintenance
  - i) The best installation method of the main valve is in a horizontal position although all other methods are acceptable.
- 2) Please ensure that the line is clean before installation of the valve.
- 3) Note that the valve can only be installed in one direction
- 4) It is advisable to install a gate valve and strainer before the control valve for maintenance purposes.
- 5) Once the line is under pressure, the gate valve should be gradually opened, increasing the pressure, taking note that the valve is functioning correctly.

### Connection Schematic



NB Main Valve(A) can be fitted a distance away from the float valve..



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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

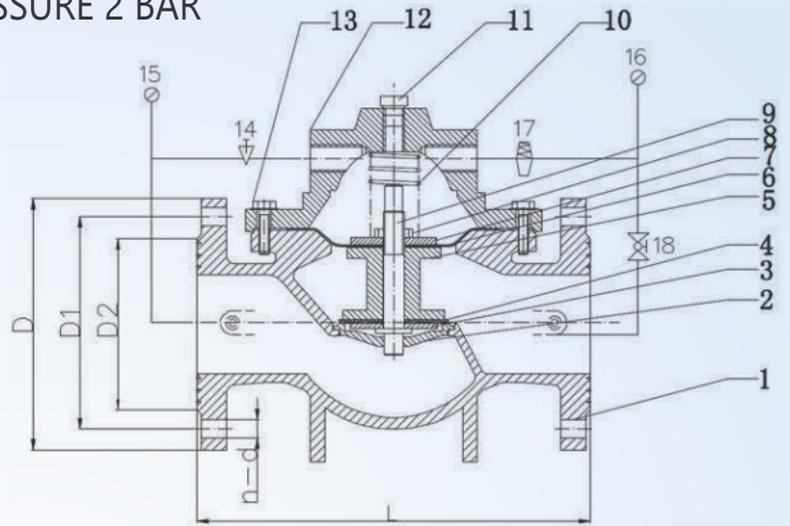
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**FIG 7240FI CAST IRON PRESSURE REDUCING VALVE FLANGED**

MIN INLET PRESSURE 2 BAR  
MIN OUTLET PRESSURE 2 BAR

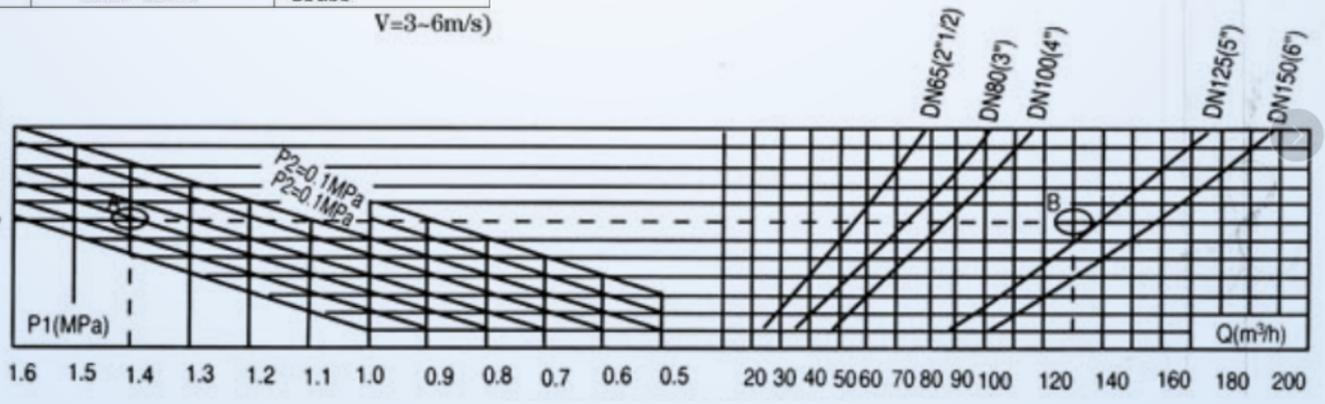


No	Part	Material
1	Body	DI
2	Seat	Brass
3	Platen	Carbon Steel
4	Seal	EPDM
5	Disc	DI
6	Diaphragm	EPDM
7	Platen	Carbon Steel
8	Nut	Stainless Steel
9	Stem	Stainless Steel
10	Spring	Stainless Steel
11	Plug	Brass
12	Bonnet	DI
13	Bolts	Stainless Steel
14	Needle valve	Brass
15	Pressure gauge	
16	Pressure gauge	
17	Pilot valve	Brass
18	Ball valve	Brass

SIZE		L	PN16				N.W./KGS
in	DN		D1	n-d	D2	D	
2	50	215	125	19-Apr	99	160	9.5
2.5	65	235	145	19-Apr	118	180	15
3	80	250	160	19-Aug	132	195	16
4	100	290	180	19-Aug	156	215	20
5	125	325	210	19-Aug	184	245	29
6	150	360	240	23-Aug	211	280	37
8	200	420	295	23-Dec	266	335	65
10	250	510	355	28-Dec	319	405	121
12	300	600	410	28-Dec	370	460	162
14	350	670	470	16-28	429	520	
16	400	730	525	16-31	480	580	
18	450	730	585	20-31	548	640	
20	500	800	650	20-34	609	715	
24	600	970	770	20-37	720	840	
28	700	1110	840	24-37	794	910	
32	800	1200	950	24-40	901	1025	

V=3-6m/s)

P2=0.3MPa  
P2=0.4MPa  
P2=0.5MPa  
P2=0.6MPa  
P2=0.7MPa  
P2=0.8MPa



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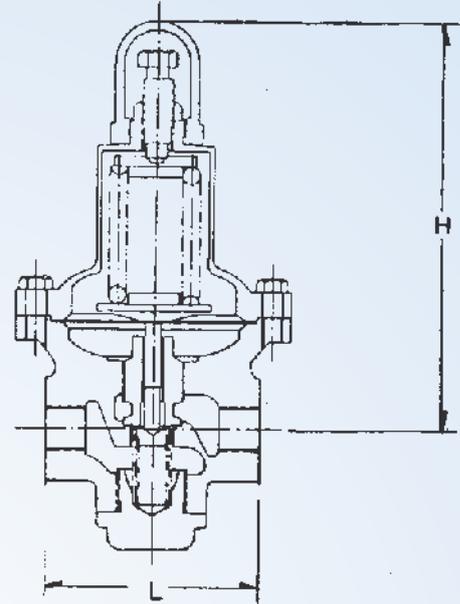
# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

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FIG 7250

STEAM PRESSURE REDUCING VALVE



**DIMENSION**

mm

Size	inch	1/2	3/4	1
	mm	15	20	25
L		95	95	101
H		196	196	202
WEIGHTS (Kg)		3.9	3.9	4.9

\* Please name MODEL NO. when negotiation.

Test Pressure: Body 20 Kgf/cm<sup>2</sup> (Hydrostatic)

Primary Pressure: 0.3 Kgf/cm<sup>2</sup> – 2 Kgf/cm<sup>2</sup>

1 Kgf/cm<sup>2</sup> – 7.5 Kgf/cm<sup>2</sup>

Max. Temperature: 220<sup>o</sup>C

Thread: BS21, ANSI B2.1 or DIN-259.

**MATERIAL**

Model:	PR 3A
Body Cap	CAST IRON ASTM A126 CLASS B
Bottom Cover	CAST IRON ASTM A126 CLASS B
Gasket	ASBESTOS
Diaphragm	ST. ST.
Seat/Disc/Stem	STEEL
Spring	ST. ST.
Spring Seat	STEEL
Packing	PTFE
Adjust Scr. Nut	BRASS
Bolt	STEEL

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**FIG 7250**

**STEAM PRESSURE REDUCING VALVE**

**FC-20 PRESSURE REDUCING VALVE CLASS 10K**

SCREWED END : PR-3AS

FLANGED END : PR-3AF

**FLOW CAPACITY (KG/H)**

PRESSURE BAR		+/- 1% (KG/H)						
WORK PRESSURE		1 Kgs	2 Kgs	3 Kgs	4 Kgs	5 Kgs	6 Kgs	7 Kgs
SIZE								
1/2"			580	630	800	1100	1300	1600
3/4"			820	1100	1500	1800	2000	2200
1"			1500	1800	2200	2800	3200	3700
1.1/4"			2500	3000	3800	4200	5100	6200
1.1/2"			3200	4000	5200	6000	7500	9800
2"			5600	6000	7500	8200	8900	11000
2.1/2"			9000	9800	11000	14000	16000	20000
3"			12000	14000	16000	20000	25000	28000
4"			20000	22000	24000	26000	28000	32000
6"			35000	38000	48000	57000	68000	82000

1. Pipes must be neat and clean before fitted.
2. Inlet pressure 10 Kgs x 0.6 = 6 Kgs Outlet pressure.
3. A Y-Strainer has to be installed in the front of pressure reducing valve best for long usage.
4. Pressure reducing valve should be setting on the horizontal position. (vertical setting is prohibited)

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY



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FIG 7250

## STEAM PRESSURE REDUCING VALVE

PRESSURE REDUCING VALVE

Blow-Off Capacity of Saturated Steam

P1 = Inlet Pressure ?kgf / cm<sup>2</sup>g?

P2 = Outlet Pressure ?kgf / cm<sup>2</sup>g?

kgs / h

p1 \ p2	3 kg	3.5 kg	4 kg	4.5 kg	5 kg	5.5 kg	6 kg	6.5 kg	7 kg	7.5 kg	8 kg	8.5 kg	9 kg	9.5 kg	10 kg
1 kg	47.5	53.5													
1.5 kg	42.5	51.1	59.2	65.3											
2 kg	36.1	45.6	54.4	63.1	71.2	77.2									
2.5 kg	26.5	38.5	48.7	57.8	66.5	74.8	83.2	89.2							
3 kg		28.1	41.1	51.5	61.0	70.1	78.3	86.5	95.1	100.0					
3.5 kg			29.8	43.2	54.3	64.1	73.4	82.1	90.3	98.5	107.2	112.5			
4 kg				31.5	45.2	56.5	67.1	76.3	85.2	93.5	106.1	110.2	119.0	124.8	
4.5 kg					32.6	47.3	59.2	69.8	79.3	88.5	102.1	105.6	114.1	122.1	130.8
5 kg						34.1	49.1	61.5	72.2	82.2	97.2	100.5	109.2	117.6	126.0
5.5 kg								51.1	63.8	74.7	85.1	94.5	103.7	112.6	121.2
6 kg										65.8	77.2	87.7	97.5	106.8	115.8
6.5 kg											79.6	90.4	100.2	108.8	
7 kg													92.8	103.1	

$p1 = p2 \times cv$

MODEL	CV	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"	5"	6"
PR-3AF	CV	1	2.5	4	6.5	9	16	25	36	62	92	125
PR-3AS	CV	1	2.5	4	--	--	--	--	--	--	--	--

ex. p1 Input 6.5 kgs – p2 output 3.5 kgs

$2.1/2'' \ 82.1 \times 25 = 2052.50 \text{ kgs/h}$

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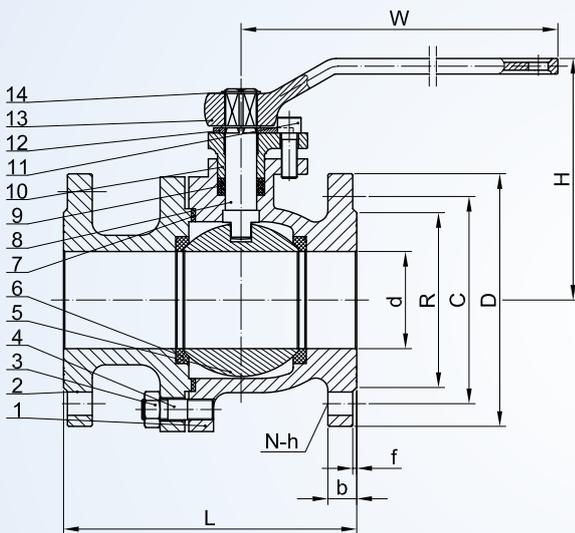
**FIG 7**

**CAST IRON FLANGED BALL VALVE CLASS 150**



1. Design and Manufacture : ANSI B16.1
2. Face to Face : ANSI B16.10
3. End Flange Dimensions : ANSI B16.1
4. Nominal Pressure : CLASS 150
5. Pressure Test : API 598

**Max Temp: 150 Deg c**



NO	PART NAME	MATERIAL
1	BODY	CAST IRON (ASTM A126-B)
2	BONNET	CAST IRON (ASTM A126-B)
3	NUT	CARBON STEEL
4	BOLTING	CARBON STEEL
5	BALL	STAINLESS STEEL (A182 F304)
6	SEAT	PTFE
7	GASKET	PTFE
8	STEM	STAINLESS STEEL (A182 F304)
9	STEM PACKING	PTFE
10	GLAND FLANGE	CAST IRON (ASTM A126-B)
11	GLAND BOLT	CARBON STEEL
12	STOP COLLAR	CARBON STEEL
13	LEVER	DUCTILE IRON
14	CIRCLIP	CARBON STEEL

SIZE DN (MM)	15	20	25	32	40	50	65	80	100	125	150	200	250
d	15	20	25	32	40	50	65	80	100	125	150	200	250
L	108	117	127	140	165	178	190	203	229	356	394	457	533
H	78	113	107	113	130	146	176	222	222	250	275	-	-
W	130	160	160	160	250	250	350	350	400	600	600	-	-
D	89	98.6	108	117	127	152	178	191	229	254	279	343	406
C	60.5	70	79.5	89	98.5	120.5	139.5	152.5	190.5	216	241.5	298.5	362
R	35	43	51	53.5	73.2	92	104.7	127	157.2	186	216	270	332
b	9.7	10.5	11.2	12.7	14.2	15.9	17.5	19.1	23.9	24	25.4	28.5	30.2
N-h	4-ø16	4-ø16	4-ø16	4-ø16	4-ø16	4-ø19	4-ø19	4-ø19	8-ø19	8-ø22	8-ø22	8-ø22	12-ø25
f	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Weight Kg	3.2	3.6	4.3	6.6	7.9	9.4	12.8	15.5	22.2	38.9	55.3	86.1	240
Torque Figure Including 50% Safety Factor (N.m)	9	13.5	21	31.5	48	82.5	90	157.5	247.5	375	735	1290	1650

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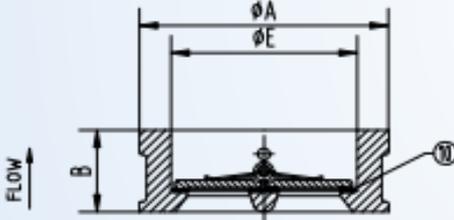
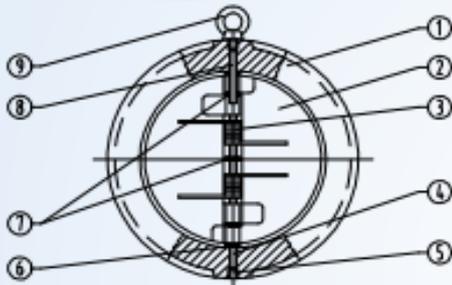
### FIG 7331WI WAFER PATTERN NON RETURN VALVES

Conforms To DIN F16

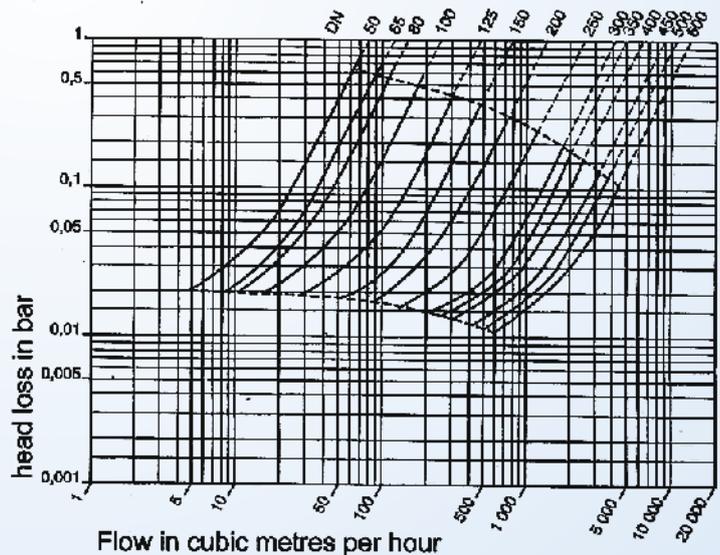


MAX WORKING PRESSURE NON SHOCK	
MAX STEAM	N/A
MAX W.O.G.	16 BAR @ MAX 120 DEG C MIN -15 DEG C

SIZE	B	E	A	Weight Kg/ea
			BS4504 PN10/PN16	
DN50	43	65	107	1.3
DN65	46	80	127	1.9
DN80	64	94	142	2.9
DN100	64	117	162	3.7
DN125	70	145	192	5.2
DN150	76	170	218	7.2
DN200	89	224	273	12.5
DN250	114	265	328	21
DN300	114	310	378/382	31
DN350	127	360	438/442	45
DN400	140	410	488/495	60
DN450	152	450	538/555	72
DN500	152	505	592/617	80



#### Pressure drops in water flow



The curves in continuous line define the flow range for the optimum use of the check valve.

ITEM	PART NAME	MATERIAL
1	BODY	CAST IRON
2	PLATE	DUCTILE IRON+N1
3	SPRING	SS304
4	HINGE PIN	SS416
5	PLUG	CS
6	BODY BEARING	PTFE
7	SPRING BEARING	PTFE
8	STOP PIN	SS416
9	EYE BOLT	CS (8")
10	BODY SEAT	NBR

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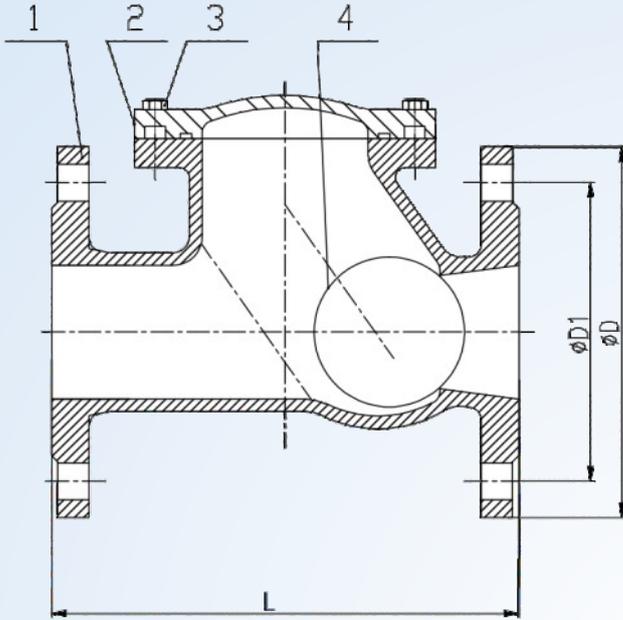
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**FIG 7338FI CAST IRON FLANGED BALL CHECK VALVE**



<b>Nominal Pressure</b>		<b>1.6</b>	<b>MPA</b>
<b>Testing Pressure</b>	<b>Shell</b>	<b>2.4</b>	
	<b>Sealing</b>	<b>1.76</b>	

DN	L	D	N-d
DN50	195	155	4* 18
DN65	200	176	4* 18
DN80	235	190	8* 18
DN100	240	210	8* 18
DN150	330	270	8* 23
DN200	375	325	12* 23
DN250	500	396	12* 27
DN300	550	455	12* 27



NO	PART NAME	MATERIAL
1	BODY	DUCTILE IRON
2	BALL FLOAT	Ductile Iron+NBR
3	GASKET	NBR
4	BONNET	DUCTILE IRON
5	BOLT	CARBON STEEL
6	WASHER	CARBON STEEL
7	WASHER	TFL
8	PLUG	CARBON STEEL

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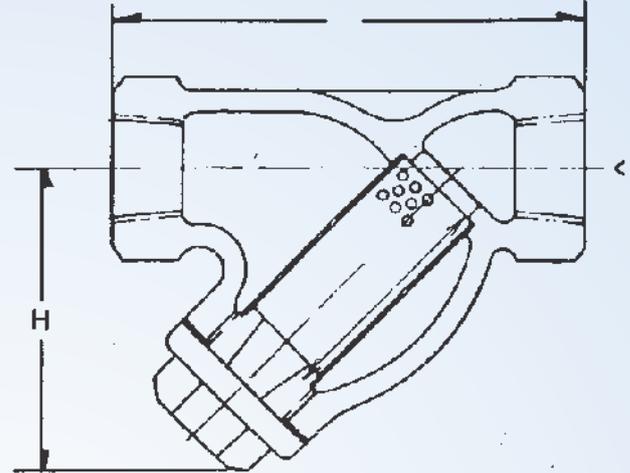
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**FIG: 12I**

### STRAINER CAST IRON Y PATTERN SCR BSP

Conforms To DIN F16



**DIMENSION**

Size	mm								
	inch	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	mm	15	20	25	32	40	50	65	80
L		90	140	125	140	140	170	215	240
H		60	70	85	100	105	125	145	165

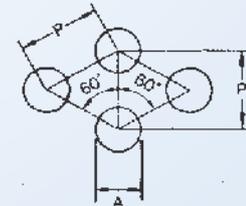
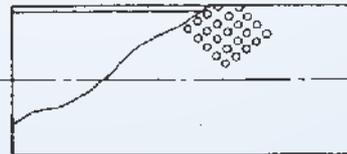
**MATERIAL**

Model:	YS-R3S	
Body	IRON	ASTM A126 CLB
Cap	IRON	ASTM A126 CLB
Screen	S.S. 304	
Gasket	ASBESTOS	
Plug	SS 41	

Working pressure: 10 Bar W.O.G

Test Pressure: Body 20Kgf/cm<sup>2</sup> (Hydrostatic)

Thread: BS21, ANSI B2.1 or DIN-259.



**SCREEN HOLE SIZE**

Size	mm		
	A	P	T
1/2" - 1"	1	2	0.6
1-1/4" - 3"	2	3.5	0.6

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
VALVE

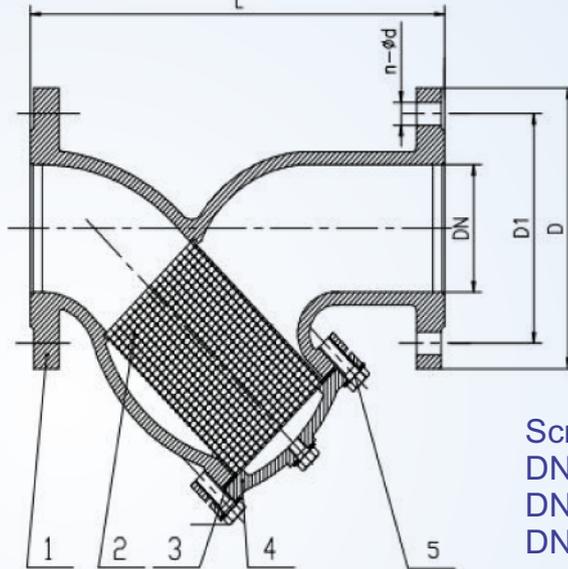
*Break Away*  
Brand Valves

### FIG 7754FINP C/I STRAINER FLANGED PN16 NEW PATTERN



NOMINAL PRESSURE	1.6	Mpa
TESTING PRESSURE	2.4	
SHELL SEALIN	1.8	

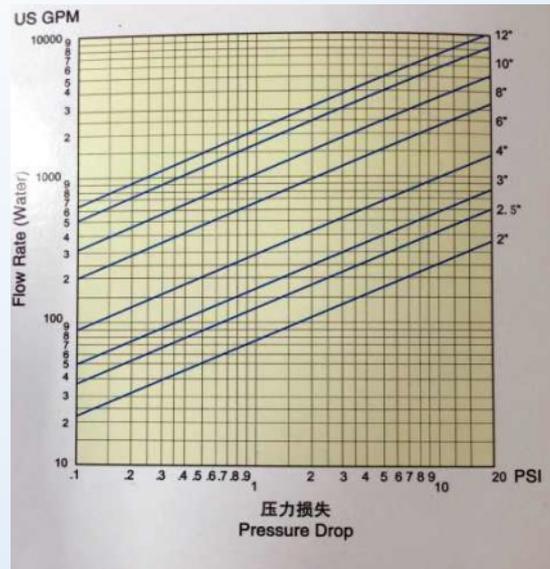
		Weight Kg/EA
Y STRAINER WORK PRESSURE:PN16 BODY:DI SCREEM:SS304 #7754FINP	DN50	5
	DN65	6
	DN80	7.5
	DN100	9.5
	DN125	14
	DN150	16
	DN200	29
	DN250	47
DN300	58	



Screen Diameter:  
DN50-DN100: 1.5mm  
DN125-DN200:2mm  
DN250-Dn300:3mm

DN	L	PN16		
		D	D1	n-d
50	202	155	125	4-18
65	220	176	145	4-18
80	248	190	160	8-18
100	297	210	180	8-18
125	315	238	210	8-18
150	347	270	240	8-22
200	413	328	295	12-22
250	502	396	355	12-26
300	582	455	410	12-26

5	BOLT	CARBON STEEL
4	BONNET	DUCTILE IRON
3	SEATING	RUBBER
2	SCREEM	SS304
1	BODY	DUCTILE IRON
NO.	PARTS NAME	MATERIAL



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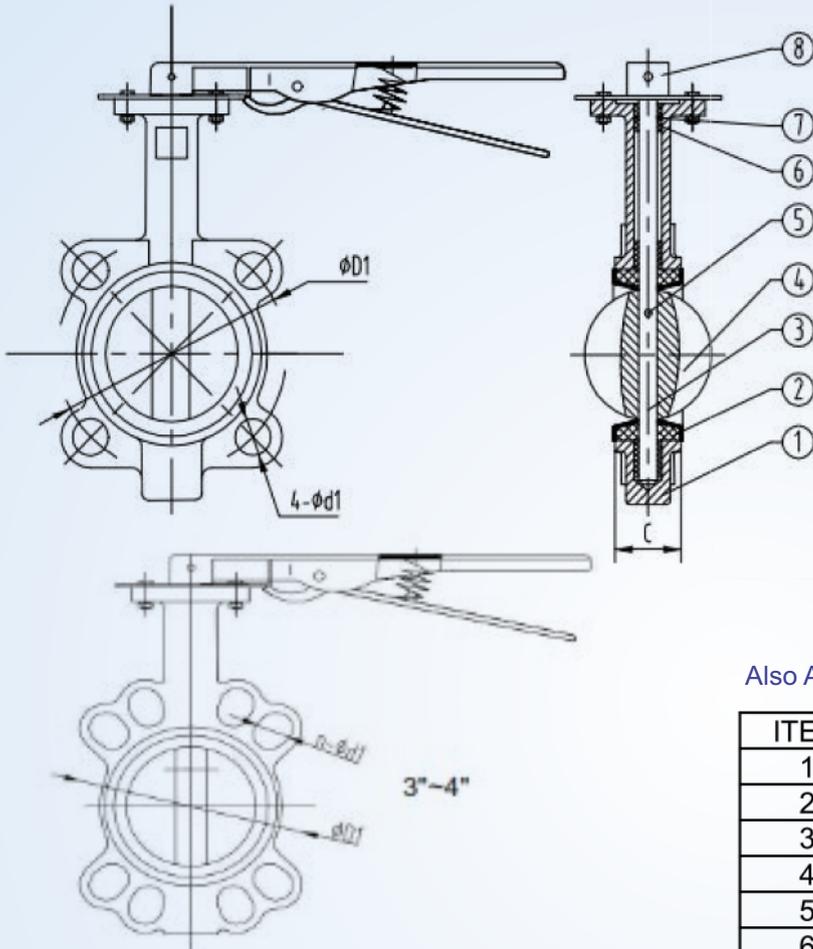
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**FIG 7777INP C/I WAFER BUTTERFLY VALVE NP & SS DISC**



Also Available with SS 304 Pinless Disc

ITEM	PART NAME	MATERIAL
1	BODY	CAST IRON
2	SEAT	EPDM
3	SHAFT	Carbon Steel
4	DISC	DUCTILE IRON+NI
5	PIN	SS416
6	BUSHING	PTFE
7	O RING	NBR
8	LEVER	Cast Steel

		Weight Kg/Ea
Wafer butterfly valve	DN50	2.15
single shaft with pin	DN65	2.45
Body: Cast Iron (2"-8")	DN80	2.81
DI above 8"	DN100	4.15
Disc: Ductile Iron	DN125	4.85
Stem: Carbon Steel Round	DN150	6.15
shaft head	DN200	10.89
Seat: EPDM vulcanized on	DN250	15.5
body	DN300	19.7

SIZE	L	BS4504 PN10/PN16		TABLE D	
		D1	n-d1	D1	n-d1
DN50	42	125	4-18	114	4-18
DN65	44.7	145	4-18	127	4-18
DN80	45.2	160	8-18	146	4-18
DN100	52.1	180	8-18	178	4-18
DN125	54.4	210	8-18	210	8-18
DN150	55.8	240	8-22	235	8-18
DN200	60.6	295	8/12-22	292	8-18
DN250	65.6	350/355	12-22/26	/	/
DN300	76.9	400/410	12-22/26	406	12-22

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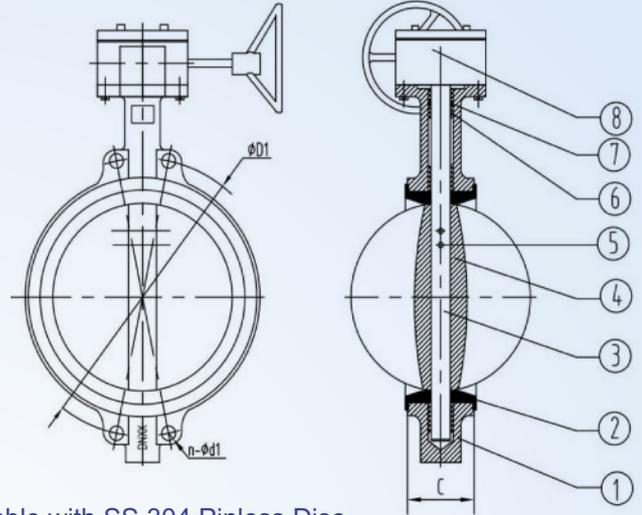
# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
VALVE

*Break Away*  
Brand Valves

**FIG 7778INP C/I WAFER BUTTERFLY VALVE GEAR BOX NP & SS DISC**



Also Available with SS 304 Pinless Disc

ITEM	PART NAME	MATERIAL
1	BODY	CAST IRON
2	SEAT	EPDM
3	SHAFT	CARBON STEEL
4	DISC	DUCTILE IRON+NI
5	PIN	SS416
6	BUSHING	PTFE
7	O RING	NBR
8	WORM GEAR	COMPONENTS

	Weight Kg/ea
Wafer butterfly valve	
single shaft with pin	
Body: Cast Iron (2"-8")	
DI above 8"	
Disc: Ductile Iron	
Stem: Carbon Steel Round shaft head	
Seat: EPDM vulcanized on body	
Top Flange: ISO5211	
WORM GEAR OP ONE	

SIZE	L	BS4504 PN10/PN16		TABLE D	
		D1	n-d1	D1	n-d1
DN50	42	125	4-18	114	4-18
DN65	44.7	145	4-18	127	4-18
DN80	45.2	160	8-18	146	4-18
DN100	52.1	180	8-18	178	4-18
DN125	54.4	210	8-18	210	8-18
DN150	55.8	240	8-22	235	8-18
DN200	60.6	295	8/12-22	292	8-18
DN250	65.6	350/355	12-22/26	/	/
DN300	76.9	400/410	12-22/26	406	12-22
DN350	76.5	460/470	16-23/27	/	/
DN400	86.5	515/525	16-27/30	/	/
DN450	105.6	565/585	20-27/30	/	/
DN500	131.8	620/650	20-27/33	/	/

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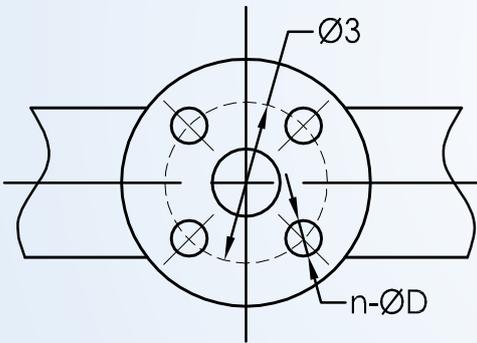
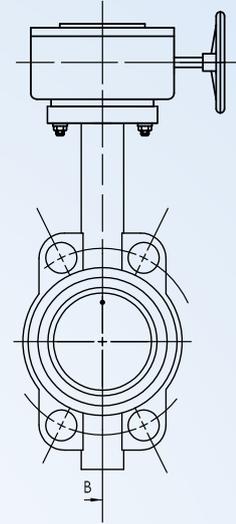
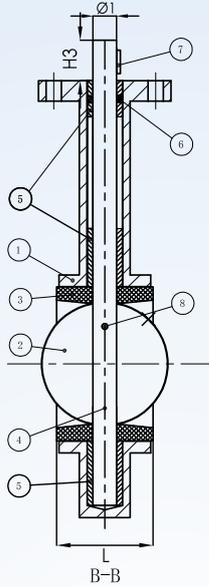
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## VALVE & ENGINEERING MERCHANT COMPANY

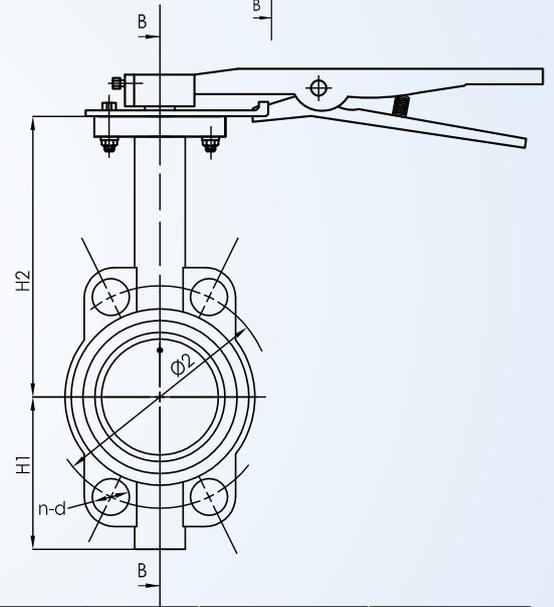
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VALVE

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Brand Valves

**FIG 7777IV BMC CAST IRON WAFER TYPE BUTTERFLY VALVES VITON LINER**



NO.	NAME	MATERIAL
1	BODY	GG20
2	DISC	CF8
3	SEAT	VITON
4	STEM	SS410
5	BUSHING	PTFE
6	O RING	NBR
7	KEY	CARBON STEEL
8	PIN	SS304



SIZE	H1	H2	H3	L	ø1	ANSI B16.5		DIN2531		DIN2532/2533		BS4504 PN10/16		SABS1123 1000-3/1600-3		JIS 10K		ø3	n-d
						ø2	n-d	ø2	n-d	ø2	n-d	ø2	n-d	ø2	n-d	ø2	n-d		
40	66	105	23	36	12.7	98.5	4-ø16	100	4-ø14	110	4-ø18	110	4-ø19	110	4-ø18	105	4-ø19	50	8
50	70	149	23	45	12.7	120.6	4-ø19	110	4-ø14	125	4-ø18	125	4-ø19	125	4-ø18	120	4-ø19	50	8
65	87	165	23	48	12.7	139.7	4-ø19	130	4-ø14	145	4-ø18	145	4-ø19	145	4-ø18	140	4-ø19	50	8
80	101	164	23	49	12.7	152.4	4-ø19	150	4-ø19	160	8-ø18	160	8-ø19	160	8-ø18	150	8-ø19	50	8
100	110	180	25	55	15.9	190.5	8-ø19	170	4-ø19	180	8-ø18	180	8-ø19	180	8-ø18	175	8-ø19	70	10
125	124	205	25	58	19	215.9	8-ø22.4	200	8-ø19	210	8-ø18	210	8-ø19	210	8-ø18	210	8-ø23	70	10
150	137	219	25	59	19	241.3	8-ø22.4	225	8-ø19	240	8-ø22	240	8-ø23	240	8-ø22	240	8-ø23	70	10
200	173	252	32	64	22.2	298.4	8-ø22.4	280	8-ø19	295	8/12-ø22	295	8/12-ø23	295	8/12-ø22	290	12-ø23	102	12
250	204	283	32	70	28.6	361.9	12-ø25.4	335	12-ø19	350/355	12-ø22/ø26	350/355	12-ø23/ø28	350/355	12-ø22/ø26	355	12-ø25	102	12
300	245	332	32	80	31.7	431.8	12-ø25.4	395	12-ø23	400/410	12-ø22/ø26	400/410	12-ø23/ø28	400/410	12-ø22/ø26	400	16-ø25	102	12

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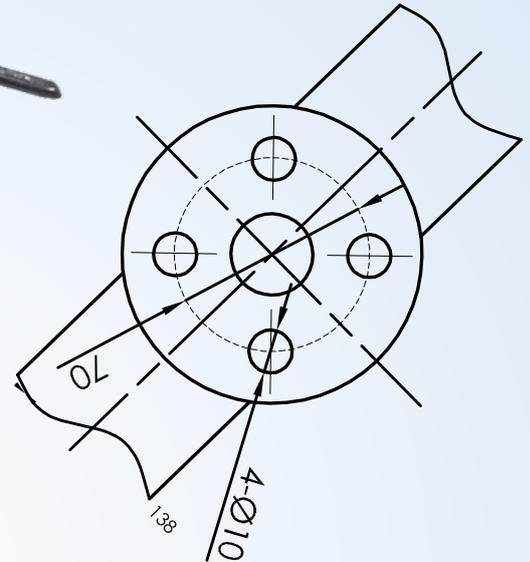
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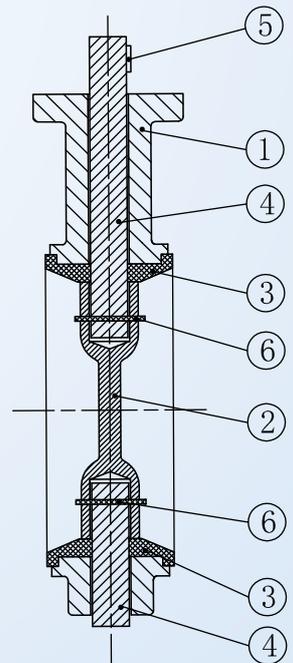
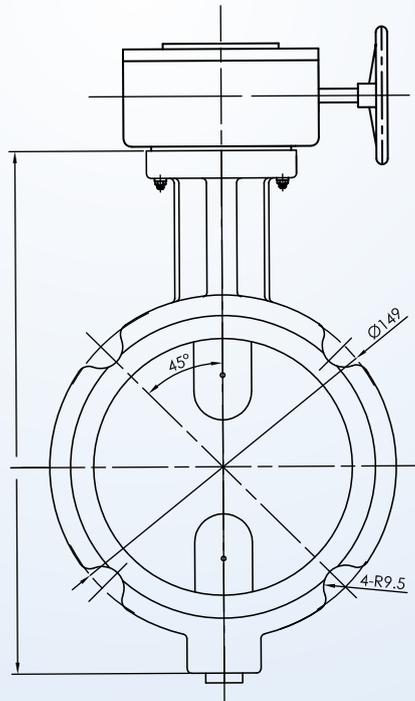
**FIG 7777ISSC01 BMC WAFER TYPE CEMENT BUTTERFLY VALVE - LEVER OPERATED**



**Dn100 PN 16**

NO.	NAME	MATERIAL
1	BODY	GGG50
2	DISC	CF8M
3	SEAT	EPDM
4	STEM	SS410
5	KEY	CARBON STEEL
6	PIN	SS316

Weight: 4.4 Kg  
FF: 55mm



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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

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Brand Valves

**FIG 9 BMC CAST IRON GATE VALVE NON RISING SPINDLE**

Cast Iron Flanged Industrial Pattern Gate valves, Bronze Taper Wedge Trim

Face to face Dimensions According to BS 3464

Flange OD: to Suit SANS1123/1000, BS4504/10 and BS10 Table D/E

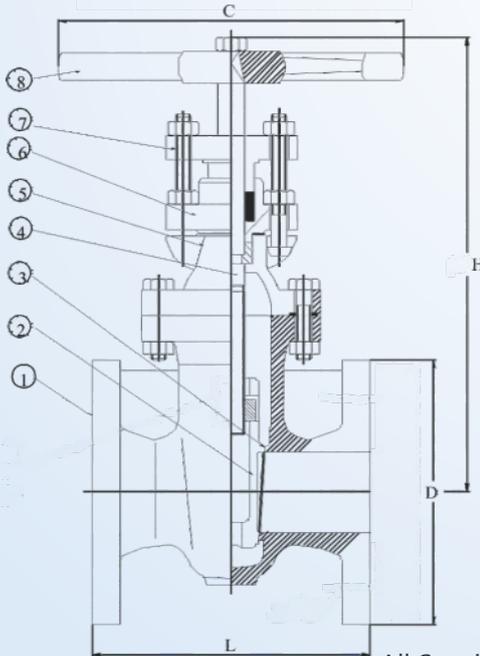
Max Pressure: 16 Bar

Max Temperature: 80 Deg c



Primary Service Pressure	Hydrostatic Test Pressure (psi)	
	Shell	Seat
Non Shock		
16 Bar	24 Bar	17,6 Bar

No	Name	Material
1	Body	GG25
2	Disc Ring	Bronze
3	Seat Ring	Bronze
4	Stem	Stainless Steel
5	Bonnet	GG25
6	Stuffing Box	GG25
7	Gland	GG25
8	Handwheel	GG25



DN	L	D	C	H	Weight Kg
50	146	165	165	290	14
65	159	185	165	310	19
80	165	200	165	340	24
100	172	220	242	370	29
125	190	254	266	455	40
150	210	285	345	470	55
200	241	340	345	620	108
250	273	406	376	725	167
300	305	460	450	775	214

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

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Brand Valves

**FIG 10 BMC CAST IRON GATE VALVE RISING SPINDLE**

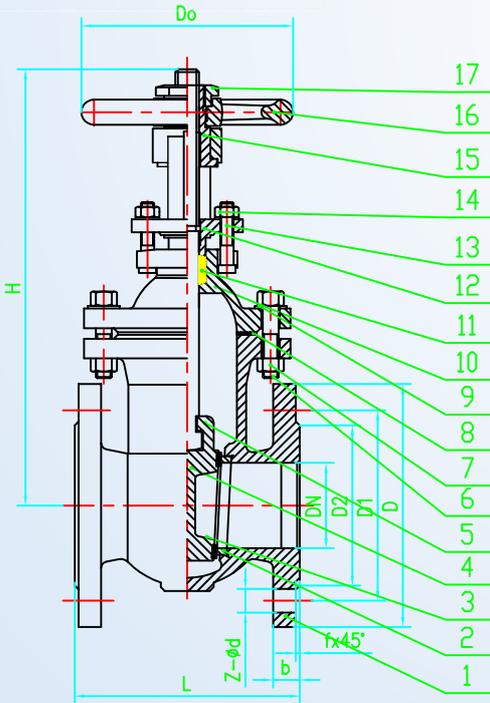


Cast Iron Gate Valve Rising Spindle  
Brass Seat And Clack  
DIN3352-F4 Pattern  
Face to Face According To DIN3202-F4

Primary Service Pressure	Hydrostatic Test Pressure (psi)	
	Shell	Seat
16 Bar	24 Bar	17,6 Bar

NO	NAME	QTY	MATERIAL
1	BODY	1	GG25
2	SEAT	2	HT62
3	DISC	1	GG25
4	STEM	1	CARBON STEEL
5	STEM NUT	1	BRASS
6	BOLT		
7	NUT		
8	GASKET	1	GRAPHITE
9	GASKET		
10	BONNET	1	GG25
11	PACKING		GRAPHITE
12	GLAND	1	GG25
13	BOLT	2	
14	NUT GASKET	2	
15	STEM NUT	1	H62
16	HANDWHEEL	1	GG25
17	LOCKING NUT	1	GG25

Size	Weight Kg
DN50	18
DN65	23
DN80	30
DN100	37
DN125	54
DN150	70
DN200	105
DN250	147
DN300	189



300	270	445/460	400/410	370/378	28	4	12-23/12-28	1190	320
250	250	395/405	350/355	320	26		8-23/12-23		
200	230	340	295	268	24		8-23		
150	210	285	240	212	22	3	8-19		
125	200	250	210	188	20		4-19/8-19	180	
100	190	220	180	158	18		4-19		
80	180	200	160	138					
65	170	185	145	122					
50	150	165	125	102					
40	140	150	110	88					
DN	L	D	D1	D2	b	f	Z-d	H	Do

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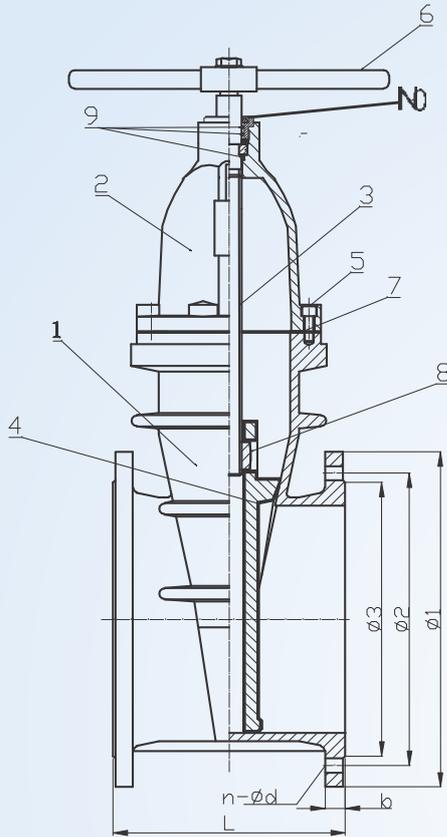
# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

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Brand Valves

**FIG :RSV664 BMC RSV GATE VALVES NON RISING SPINDLE**



Testing  
Pressure(MPa)

Specification		
Nominal Pressure(MPa)	1.6	
Test Pressure Mpa	Body	2.4
	Seal	1.76
Working Pressure(MPa)	1.6	
Suitable temperature(°c)	≤100	
Suitable medium	raw sewerage/Water	

1	Body	Ductile Iron
2	Bonnet	Ductile Iron
3	Stem	SS410
4	Disc	Ductile Iron EPDM
5	Screw and Bolts	HT CAP SCREW
6	Hand Wheel	Ductile Iron
7	Seat ring	NBR
8	Stem nut	Brass
9	O-ring	NBR
10	Gland Seat	Brass

PN16								Kg
DN	$\phi 3$	$\phi 2$	$\phi 1$	L	b	f	z- $\phi d$	Ea
50	99	125	165	216	19	3	4-19	10
80	132	160	200	229	19	3	8-19	16
100	156	180	220	254	19	3	8-19	23
150	211	240	285	280	19	3	8-23	38
200	266	295	340	317	20	3	12-23	56
250	319	355	400	356	22	3	12-28	88
300	370	410	455	380	24.5	4	12-28	121
350	429	470	520	470	26.5	4	16-28	Ea
400	480	525	580	470	28	4	16-31	Ea

**Application:**

- 1, Face to face is according to SABS 664;
- 2, Flange drilled is according to BS4504/16

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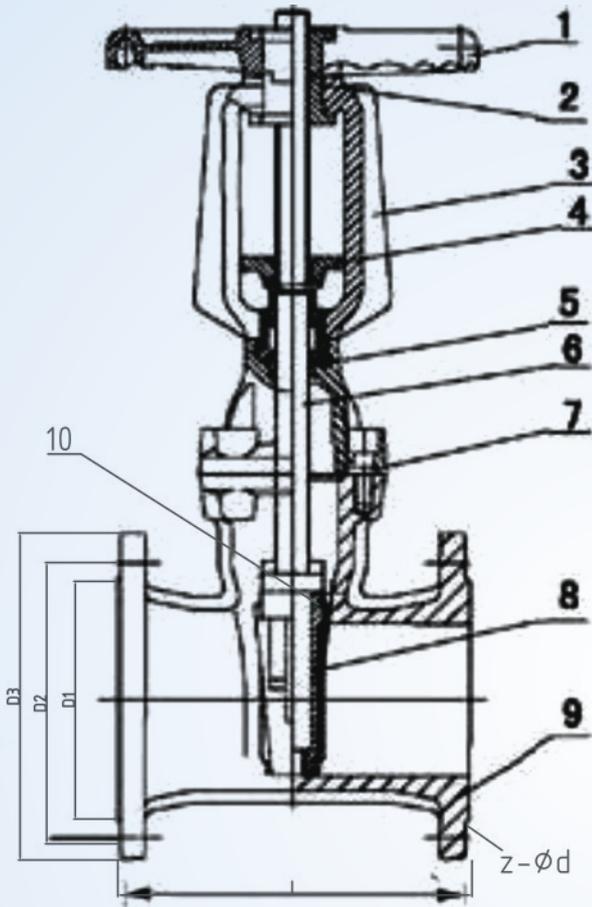
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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
VALVE

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Brand Valves

**FIG :RSV665 BMC RSV GATE VALVES RISING SPINDLE**



PN16								Kg
DN	D1	D2	D3	L	b	f	z-φd	Ea
50	99	125	165	178	19	3	4-19	12
80	132	160	200	203	19	3	8-19	19.2
100	156	180	220	229	19	3	8-19	27.6
150	211	240	285	267	19	3	8-23	45.6
200	266	295	340	292	20	3	12-23	67.2
250	319	355	400	330	22	3	12-28	105.6
300	370	410	455	356	24.5	4	12-28	145.2

Specification		
Nominal Pressure(MPa)		1.6
Testing Pressure(MPa)	Body	2.4
	Seal	1.76
Working Pressure(MPa)		1.6
Suitable temperature(°c)		≤100
Suitable medium		raw sewerage/Water
10	Stem Nut	Brass
9	Body	SG
8	Disc	SG +EPDM
7	Bonnet	SG
6	Stem	SS410
5	Oring	NBR
4	Gland	SG
3	Yoke	SG
2	HandWheel Nut	Brass
1	HandWheel	SG

**Application:**

1. Face to face is according to SABS665;
2. Flange drilled is according to BS4504/16

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
VALVE

*Break Away*  
Brand Valves

**FIG 7520FFFSRL** Flanged Diaphragm Valve CI Soft Rubber Lined , Full Flow



DIMENSIONS							APPROX WEIGHT
DN	A	B	C	D	E	T	KGS
50	190	200	3	120	165	20	11.5
65	216	250	3	182	185	20	16.5
80	254	250	3	227	200	22	24.7
100	305	355	5	271	220	24	36.8
125	356	360	5	375	250	26	54.5
150	406	530	5	375	285	26	87.3

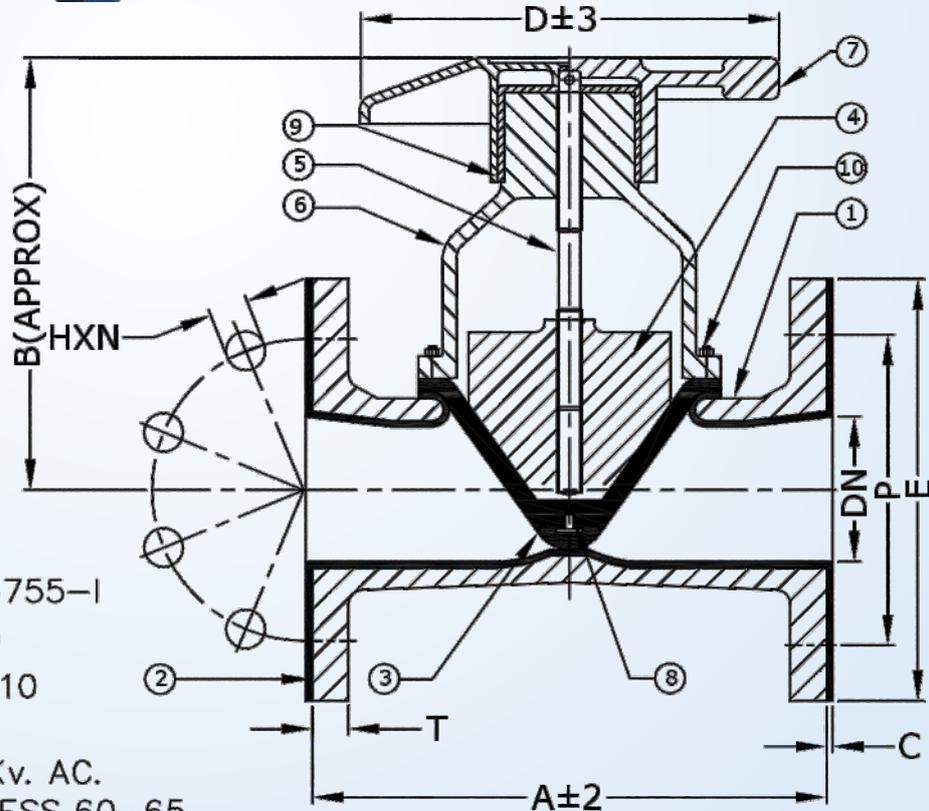
TEST PRESSURE		
SIZES	BODY	SEAT
50MM - 100MM	15KG/CM2	10KG/CM2
125MM - 150MM	10KG/CM2	07KG/CM2
DURATION: 1 MINUTE		

MATERIAL SPECIFICATION		
SN.	COMPONENT	MATERIAL
1	BODY	CAST IRON CASTING- GG25
2	LINING	SOFT NATURAL RUBBER
3	DIAPHRAGM	SOFT NATURAL RUBBER
4	COMPRESSOR	CAST IRON CASTING- GG25
5	SPINDLE	S.S.410
6	BONNET	CAST IRON CASTING- GG25
7	HANDWHEEL	ABS/DUCTILE - GGG40 *
8	STUD	M.S.
9	INDICATOR	PP
10	FASTENER	M.S.

### TECHNICAL DATA

- MFG. STD: BS5156
- MFG. STD: Revised. BS EN 13397 : 2002.
- INSP & TEST STD: BS: 6755-1
- FLANGED & UNDRILLED
- PRESSURE RATING: PN10
- SPARK TESTING OF RUBBER LINING AT 10 Kv. AC.
- RUBBER LINING HARDNESS 60-65 IN SHORE 'A'

All Specifications are subject to change without notice



Please Note That Valves Are Undrilled  
Can Be drilled Upon Request

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VALVE

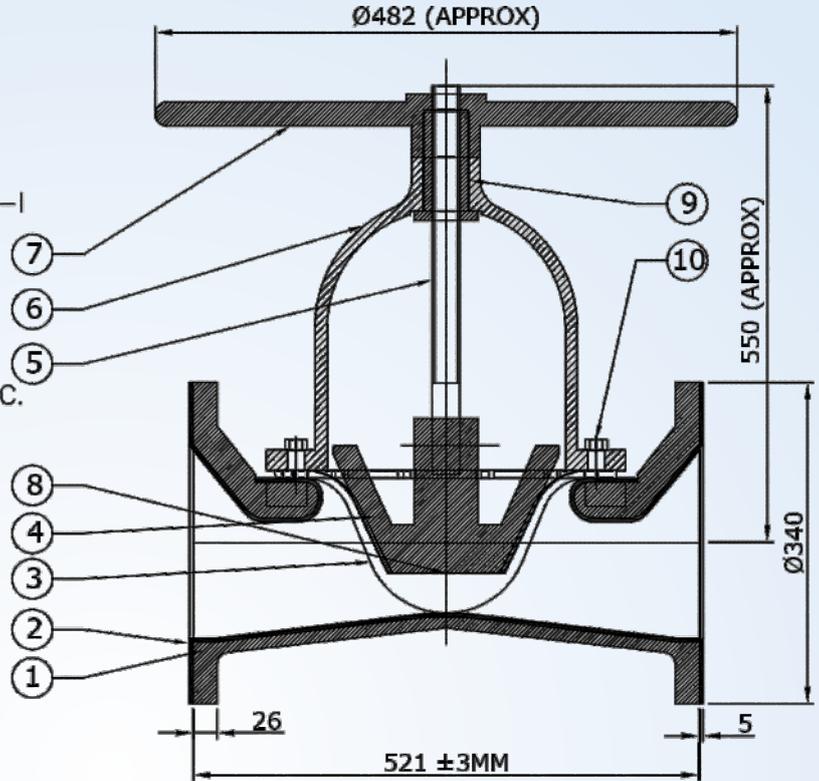
*Break Away*  
Brand Valves

### FIG 7520FFFSRL DIAPHRAGM VALVE FLGD 200MM

ALL DIMENSIONS ARE IN MM.

**TECHNICAL DATA**

- MFG. STD: BS5156
- MFG. STD: Revised, BS EN 13397 : 2002.
- INSP & TEST STD: BS: 6755-I
- END CONNECTION : FLANGED & UNDRILLED
- PRESSURE RATING: PN6
- SPARK TESTING OF 'RUBBER LINING AT 10 Kv. AC. Shore D hardness : 60-65.



TEST PRESSURE		
SIZES	BODY	SEAT
200MM	9KG/CM2	4KG/CM2
DURATION: 1 MINUTE		

MATERIAL SPECIFICATION		
SN.	COMPONENT	MATERIAL
1	BODY	CAST IRON CASTING – GG25
2	LINING	SOFT NATURAL RUBBER
3	DIAPHRAGM	SOFT NATURAL RUBBER
4	COMPRESSOR	CAST IRON CASTING – GG25
5	SPINDLE	AISI 410
6	BONNET	CAST IRON CASTING – GG25
7	HANDWHEEL	DUCTILE IRON – GGG40
8	STUD	M.S.
9	STEM NUT	DUCTILE IRON – GGG40
10	FASTENER	M.S.

200MM VALVE APPROX WEIGHT 128.5 KG

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
VALVE

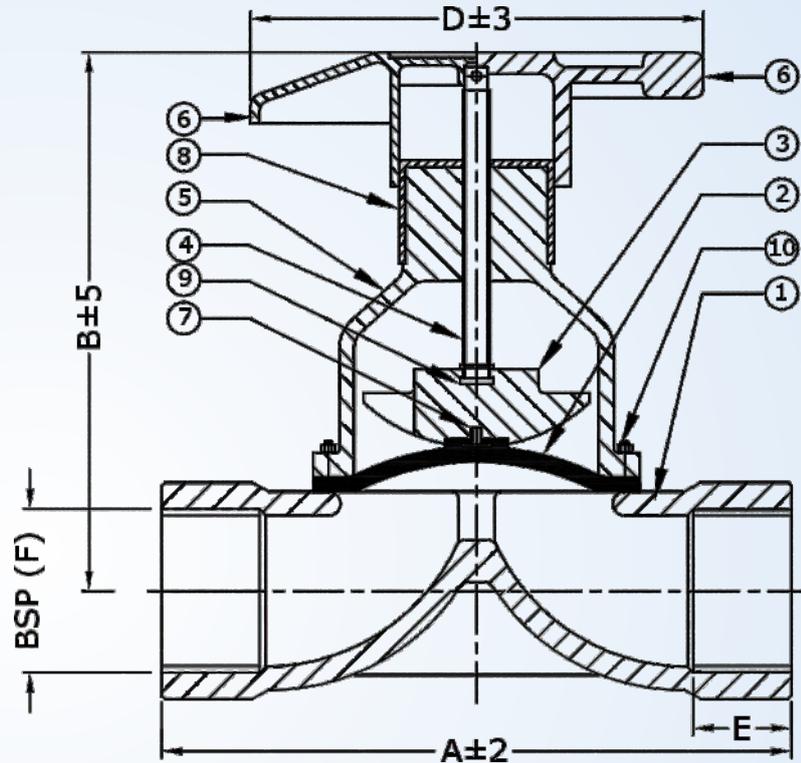
*Break Away*  
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FIG 7520

DIAPHRAGM VALVE SCR



TEST PRESSURE		
SIZES	BODY	SEAT
15/20MM	24KG/CM2	16KG/CM2



SIZE	WEIGHT
20MM	0.9KG

DIMENSIONS		
DN	15	20
A	65	84
B	85	99
D	62	62
E	9.5	12.5

MATERIAL SPECIFICATION		
SN.	COMPONENT	MATERIAL
1	BODY	ASTM A 395 (DUCTILE IRON)
2	DIAPHRAGM	EPDM
3	COMPRESSOR	ASTM A 216 Gr. WCB
4	SPINDLE	M.S.
5	BONNET	CAST IRON CASTING
6	HANDWHEEL	ABS PLASTIC
7	STUD.	Brass.
8	INDICATOR	P.P
9	THURSTDISK	NYLON
10	FASTENER	HI-TENSILE

### TECHNICAL DATA

- MFG. STD: BS5156  
MFG. STD: Revised.  
BS EN 13397 : 2002.
- INSP & TEST STD: BS: 5146
- PRESSURE RATING: PN16
- END CONNECTION ASME B16.11

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
VALVE

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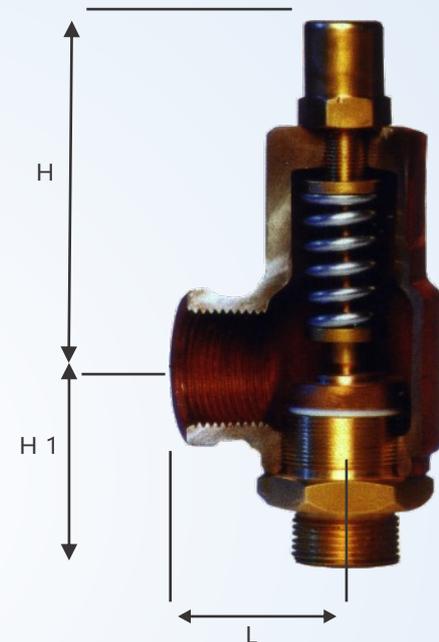
### FIG 2351 BREAKAWAY RELIEF VALVE - HIGH CAPACITY

#### FEATURES

HIGH CAPACITY SIDE DISCHARGE VALVE  
REPLACEABLE PTFE SEAT  
ADJUSTABLE SETTING  
ENCLOSED CAP (BY-PASS APPLICATION ON REQUEST)  
B.S.P. THREADS TO BS 21 TAPER  
MANUFACTURED IN SOUTH AFRICA

#### WORKING PRESSURE (BAR) NON SHOCK

MAX WORKING PRESSURE NON SHOCK		HYDROSTATIC TEST PRESSURE	
MAX STEAM	10 BAR @180 DEG C	SHELL	SEAT
MAX W.O.G.	20 BAR @ -10 TO 100 DEG C	42 BAR	23 BAR



ITEM	SPECIFICATION
BODY	MALL BS 6681 15MM - 50MM
	DZN 213 FORGED BR 15MM - 50MM
SEAT	BR-BS2874
CLACK HOLDER	DZN 213 FORGED BR 15MM - 32MM
CLACK	PTFE
SPINDLE	BR-BS2874
COLLAR	BR-BS2874
ADJUSTING SCREW	BR-BS2872
LOCK NUT	BR-BS2872
CAP	BR-BS2872
NAME PLATE	AL-BS1470
SPRING	GALV SPRING STEEL

SIZE BSP	L	H	H1	MASS KG
8				
10				
15	35	100	52	.6
20	35	100	52	.625
25	47	118	66	1.55
32	47	118	66	1.55
40	65	150	95	3.55
50	65	150	95	3.55

SPRING RANGE		
LIGHT	SILVER	50-100 KPA
MEDIUM	GOLD	100-1200 KPA
HEAVY	BLUE	1200-2000 KPA

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY



*Break Away  
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**FIG 2351**

**BREAKAWAY RELIEF VALVE - HIGH CAPACITY**

## BREAKAWAY RELIEF & SAFETY VALVES

CONVERSION FACTOR FOR AIR  
BAR TO LBS PER SQ IN = X BY 14.5  
CUBIC METRES/MIN TO CUBIC FOOT/MIN = X BY 35.31

CONVERSION FACTOR FOR WATER  
BAR TO LBSFOOT PER SQ IN = X BY 14.5  
LITRES/MIN TO IMP GALLON/MIN = X BY 0.220

CONVERSION FACTOR FOR STEAM  
BAR TO LBF /MIN = X BY 14.5  
KG/HR TO LBS/HR = X BY 2.205

**CAPACITY CHART Fig No: 2351&2361&2461**  
**(1CFM=1.698CUBIC METRES)**  
**AIR Cubic Metres/ Hour**

Kpa	15MM	20MM	25MM	32MM	40MM	50MM
35	11.34	22.97	41.18	64.15	91.08	163.94
70	15.12	28.51	50.69	79.99	115.63	205.13
100	17.80	33.83	60.07	93.80	135.15	240.26
150	22.45	42.58	75.75	118.13	170.41	302.80
175	19.80	45.94	82.37	127.51	184.54	332.64
200	22.81	51.42	91.43	142.56	205.48	366.09
300	30.41	68.90	122.70	191.41	275.81	489.27
350	32.47	74.45	133.85	209.88	300.96	537.77
400	38.97	86.58	153.96	240.17	345.57	615.86
500	46.00	104.16	185.33	289.02	417.51	739.03
525	46.73	104.54	184.54	290.66	417.38	745.27
600	53.89	121.75	216.50	337.77	485.84	865.62
700	58.61	133.06	236.81	370.66	534.60	958.32
800	69.28	156.91	279.42	434.52	626.12	1115.39
900	77.17	174.49	310.40	485.84	697.97	1241.98
1000	84.74	191.66	339.77	533.02	769.82	1374.12
1200	100.46	227.24	403.73	629.54	910.10	1614.92
1250	104.35	236.08	420.84	653.50	944.32	1679.93
1400	110.88	250.27	445.10	696.17	1004.26	1778.04
1600	131.54	297.57	530.32	824.57	1190.66	2117.87
1800	147.12	332.74	591.91	923.79	1330.94	2367.64
2000	162.61	369.52	653.50	1019.59	1471.22	2617.40

**CAPACITY CHART Fig No: 2351&2361&2461**  
**(1 GALLON=4.55 LITRES)**  
**Water Litres/Minute**

Kpa	15MM	20MM	25MM	32MM	40MM	50MM
35	3.00	8.40	14.00	19.90	31.70	58.30
70	5.40	12.65	21.90	35.80	51.20	89.50
100	5.97	13.63	23.68	36.36	53.85	94.06
150	7.31	16.69	28.99	44.53	65.95	115.66
200	8.41	18.66	33.49	53.39	74.73	131.43
300	10.30	22.86	41.00	65.38	91.48	161.47
350	11.11	25.05	44.45	69.05	99.78	174.50
400	11.93	27.25	47.89	72.72	108.08	187.70
500	13.35	30.47	53.55	81.30	120.63	210.46
600	14.62	32.32	57.99	89.05	129.74	228.13
700	15.79	36.05	62.64	95.78	142.82	249.32
800	16.88	38.54	66.96	103.29	152.47	266.39
900	17.90	40.88	71.03	108.92	161.16	282.50
1000	18.87	43.09	74.87	114.56	170.81	297.67
1200	20.59	47.20	82.96	125.83	186.25	326.11
1250	21.02	46.66	84.67	133.58	186.56	332.75
1400	22.25	49.38	89.61	141.38	197.92	348.29
1600	23.78	52.79	95.80	151.13	211.18	372.70
1800	25.23	55.99	105.19	159.90	224.44	395.23
2000	26.59	59.02	107.12	168.68	236.75	416.83

**CAPACITY CHART Fig No: 2351&2361&2461**  
**(2.2 Lbs=1Kg)**  
**STEAM KG/HR**

Kpa	15MM	20MM	25MM	32MM	40MM	50MM
50	7.22	19.20	33.30	54.60	77.00	133.00
100	9.78	26.00	45.10	73.90	104.00	180.00
200	14.91	39.30	68.10	111.00	157.00	272.00
300	19.85	52.40	90.70	148.00	209.00	363.00
400	24.89	65.70	113.00	186.00	262.00	455.00
500	29.92	79.00	136.00	224.00	316.00	547.00
600	34.96	92.30	159.00	262.00	369.00	639.00
700	39.99	105.00	182.00	299.00	422.00	732.00
800	45.03	118.00	206.00	337.00	476.00	824.00
900	49.96	132.00	228.00	374.00	528.00	914.00
1000	55.00	145.00	251.00	412.00	581.00	1006.00

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

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### FIG 2361 BREAKAWAY SAFETY VALVE - HIGH CAPACITY

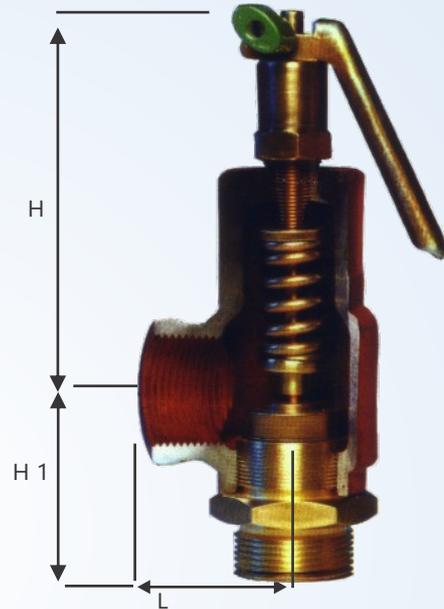
#### FEATURES

HIGH CAPACITY SIDE DISCHARGE VALVE  
REPLACEABLE PTFE TRIM  
ADJUSTABLE SETTING  
LEVER AND LOCKING DEVICE  
B.S.P. THREADS TO BS 21 TAPER  
MANUFACTURED IN SOUTH AFRICA



#### WORKING PRESSURE (BAR) NON SHOCK

MAX WORKING PRESSURE NON SHOCK		HYDROSTATIC TEST PRESSURE	
MAX STEAM	10 BAR @180 DEG C	SHELL	SEAT
MAX W.O.G.	21 BAR @ -10 TO 100 DEG C	42 BAR	23 BAR



ITEM	SPECIFICATION
BODY	MALL BS 6681 15MM - 50MM
	DZN 213 FORGED BR 15MM - 32MM
SEAT	BR-BS2874
CLACK HOLDER	DZN 213 FORGED BR 15MM - 32MM
CLACK	PTFE
SPINDLE	BR-BS2874
COLLAR	BR-BS2874
ADJUSTING SCREW	BR-BS2872
LOCK NUT	BR-BS2872
CAP	BR-BS2872
NAME PLATE	AL-BS1470
SPRING	GALV SPRING STEEL
LEVER	GALV MILD STEEL
PADLOCK	MILD STEEL

SIZE BSP	L	H	H1	MASS KG
8				
10				
15	35	115	52	0.65
20	35	115	52	0.70
25	47	142	66	1.6
32	47	142	66	1.6
40	65	175	95	3.65
50	65	175	95	3.65

SPRING RANGE		
LIGHT	SILVER	50-100 KPA
MEDIUM	GOLD	100-1200 KPA
HEAVY	BLUE	1200-2000 KPA

#### FIG 2361B

SIZE BSP	L	H	H1	MASS KG
8				
10				
15	35	120	55	0.8
20	35	120	55	0.8
25	40	130	75	1.4
32	50	140	85	2
40	55	150	95	2.8
50	65	165	105	4.1

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY



*Break Away  
Brand Valves*

**FIG 2361**

## BREAKAWAY SAFETY VALVE - HIGH CAPACITY

### BREAKAWAY RELIEF & SAFETY VALVES

CONVERSION FACTOR FOR AIR  
BAR TO LBS PER SQ IN = X BY 14.5  
CUBIC METRES/MIN TO CUBIC FOOT/MIN = X BY 35.31

CONVERSION FACTOR FOR WATER  
BAR TO LBS/FOOT PER SQ IN = X BY 14.5  
LITRES/MIN TO IMP GALLON/MIN = X BY 0.220

CONVERSION FACTOR FOR STEAM  
BAR TO LBF/MIN = X BY 14.5  
KG/HR TO LBS/HR = X BY 2.205

**CAPACITY CHART Fig No: 2351&2361&2461**

**AIR Cubic Metres/ Hour**  
(1CFM=1.698CUBIC METRES)

Kpa	15MM	20MM	25MM	32MM	40MM	50MM
35	11.34	22.97	41.18	64.15	91.08	163.94
70	15.12	28.51	50.69	79.99	115.63	205.13
100	17.80	33.83	60.07	93.80	135.15	240.26
150	22.45	42.58	75.75	118.13	170.41	302.80
175	19.80	45.94	82.37	127.51	184.54	332.64
200	22.81	51.42	91.43	142.56	205.48	366.09
300	30.41	68.90	122.70	191.41	275.81	489.27
350	32.47	74.45	133.85	209.88	300.96	537.77
400	38.97	86.58	153.96	240.17	345.57	615.86
500	46.00	104.16	185.33	289.02	417.51	739.03
525	46.73	104.54	184.54	290.66	417.38	745.27
600	53.89	121.75	216.50	337.77	485.84	865.62
700	58.61	133.06	236.81	370.66	534.60	958.32
800	69.28	156.91	279.42	434.52	626.12	1115.39
900	77.17	174.49	310.40	485.84	697.97	1241.98
1000	84.74	191.66	339.77	533.02	769.82	1374.12
1200	100.46	227.24	403.73	629.54	910.10	1614.92
1250	104.35	236.08	420.84	653.50	944.32	1679.93
1400	110.88	250.27	445.10	696.17	1004.26	1778.04
1600	131.54	297.57	530.32	824.57	1190.66	2117.87
1800	147.12	332.74	591.91	923.79	1330.94	2367.64
2000	162.61	369.52	653.50	1019.59	1471.22	2617.40

**CAPACITY CHART Fig No: 2351&2361&2461**

**Water Litres/Minute**  
(1 GALLON=4.55 LITRES)

Kpa	15MM	20MM	25MM	32MM	40MM	50MM
35	3.00	8.40	14.00	19.90	31.70	58.30
70	5.40	12.65	21.90	35.80	51.20	89.50
100	5.97	13.63	23.68	36.36	53.85	94.06
150	7.31	16.69	28.99	44.53	65.95	115.66
200	8.41	18.66	33.49	53.39	74.73	131.43
300	10.30	22.86	41.00	65.38	91.48	161.47
350	11.11	25.05	44.45	69.05	99.78	174.50
400	11.93	27.25	47.89	72.72	108.08	187.70
500	13.35	30.47	53.55	81.30	120.63	210.46
600	14.62	32.32	57.99	89.05	129.74	228.13
700	15.79	36.05	62.64	95.78	142.82	249.32
800	16.88	38.54	66.96	103.29	152.47	266.39
900	17.90	40.88	71.03	108.92	161.16	282.50
1000	18.87	43.09	74.87	114.56	170.81	297.67
1200	20.59	47.20	82.96	125.83	186.25	326.11
1250	21.02	46.66	84.67	133.58	186.56	332.75
1400	22.25	49.38	89.61	141.38	197.92	348.29
1600	23.78	52.79	95.80	151.13	211.18	372.70
1800	25.23	55.99	105.19	159.90	224.44	395.23
2000	26.59	59.02	107.12	168.68	236.75	416.83

**CAPACITY CHART Fig No: 2351&2361&2461**

**STEAM KG/HR**  
(2.2 Lbs=1Kg)

Kpa	15MM	20MM	25MM	32MM	40MM	50MM
50	7.22	19.20	33.30	54.60	77.00	133.00
100	9.78	26.00	45.10	73.90	104.00	180.00
200	14.91	39.30	68.10	111.00	157.00	272.00
300	19.85	52.40	90.70	148.00	209.00	363.00
400	24.89	65.70	113.00	186.00	262.00	455.00
500	29.92	79.00	136.00	224.00	316.00	547.00
600	34.96	92.30	159.00	262.00	369.00	639.00
700	39.99	105.00	182.00	299.00	422.00	732.00
800	45.03	118.00	206.00	337.00	476.00	824.00
900	49.96	132.00	228.00	374.00	528.00	914.00
1000	55.00	145.00	251.00	412.00	581.00	1006.00

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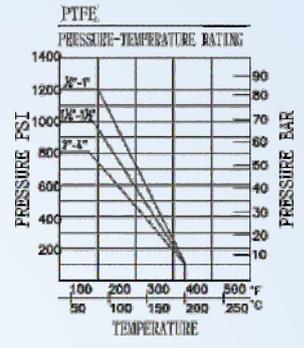
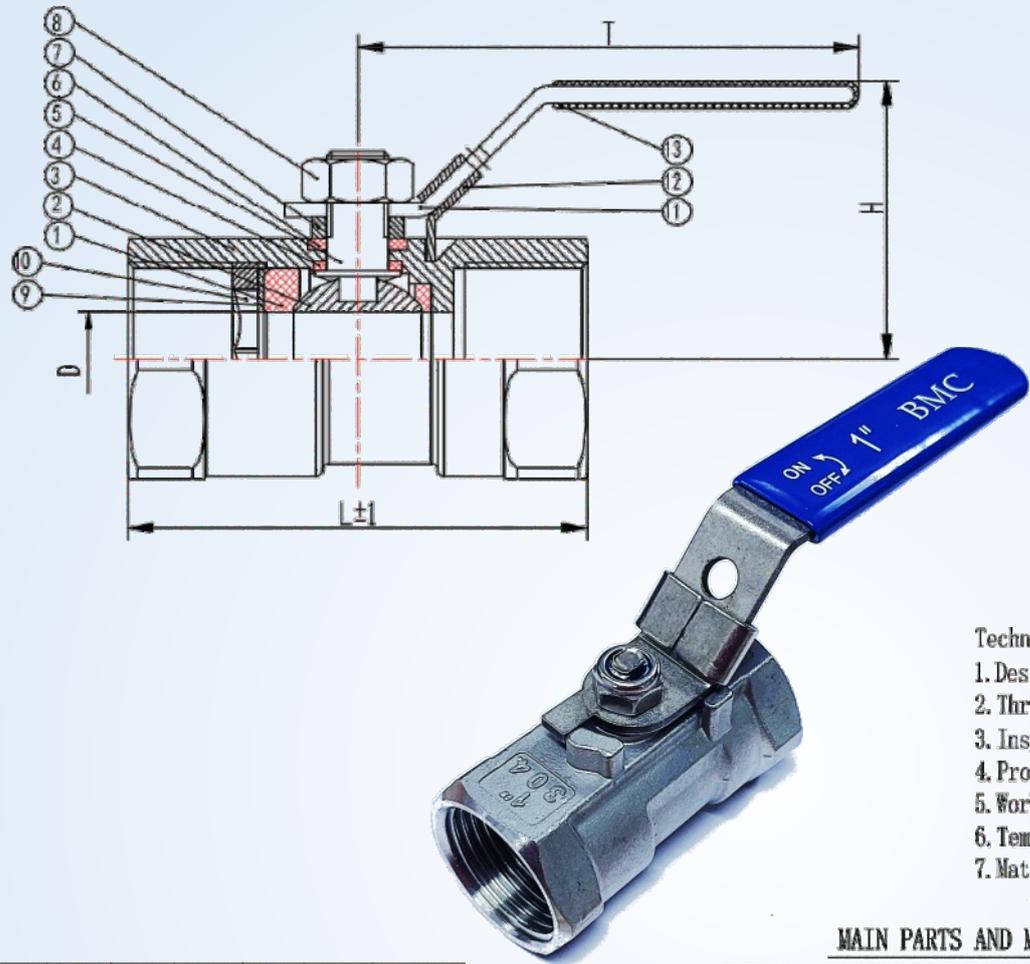
# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY



*Break Away*  
Brand Valves

**FIG 4164I** BMC Ball Valve 1 Piece Reduced Bore 304SS



- Technical Specification :
1. Design and manufacture: ASME B16.34 GB/T12237
  2. Threaded ends : BSPT, BSP, NPT, DIN2999, DIN259
  3. Inspection and test : API598 JB/T9092
  4. Product STYLE
  5. Working Pressure: 6.4Mpa
  6. Temperature Range: -20°C ~ 120°C
  7. Material: ASTM-A351-CF8

**MAIN PARTS AND MATERIALS**

SIZE	DN	D	L±1.5	H	T	WT (kg)
1/4"	8	5	40	32	75	0.06
3/8"	10	7	42	32	85	0.09
1/2"	15	8.5	56	35	98	1.4
3/4"	20	12	60	38	98	0.21
1"	25	15	71	52	110	0.36
1 1/4"	32	15	76	52	110	0.55
1 1/2"	40	25	81.5	61	143	0.69
2"	50	32	98	66	143	1.18
2 1/2"	65	40	112	66	172	1.72
3"	80	50	132	66	220	2.6
4"	100	65	--	66	300	5.55

NO	Part name	Material	QTY	NO	Part name	Material	QTY
7	Gland	SS201	1	14			
6	Packing	PTFE	1	13	Handle Cover	PVC	1
5	Stem	SS316	1	12	Lock	SS201	1
4	Thrust Washer	PTFE	1	11	Handle	SS201	1
3	Body	CF8	1	10	Cap	CF8M	1
2	Ball	SS316	1	9	Washer	SS316	1
1	Seat	PTFE	2	8	Nut	SS201	1

图样标记	重量	单位	比例
		mm	1:1

设计	审核	名称
		1 PC Ball Valve

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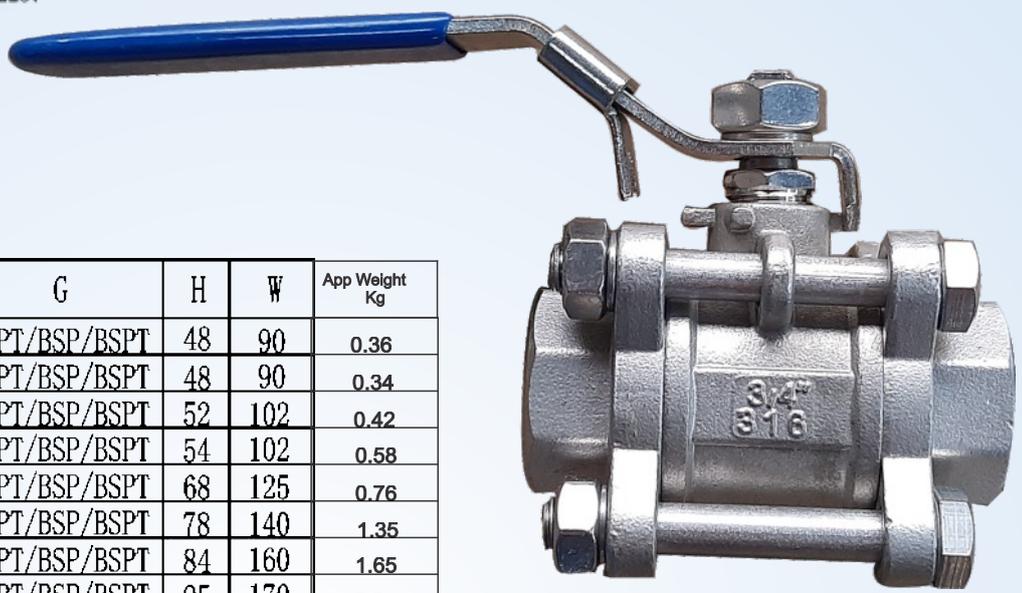
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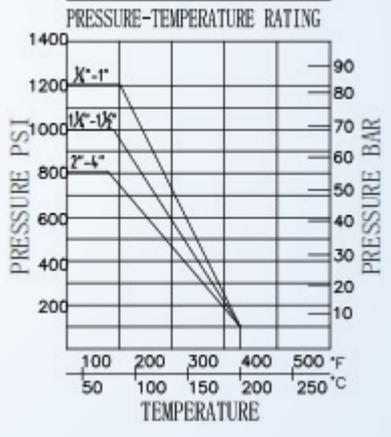
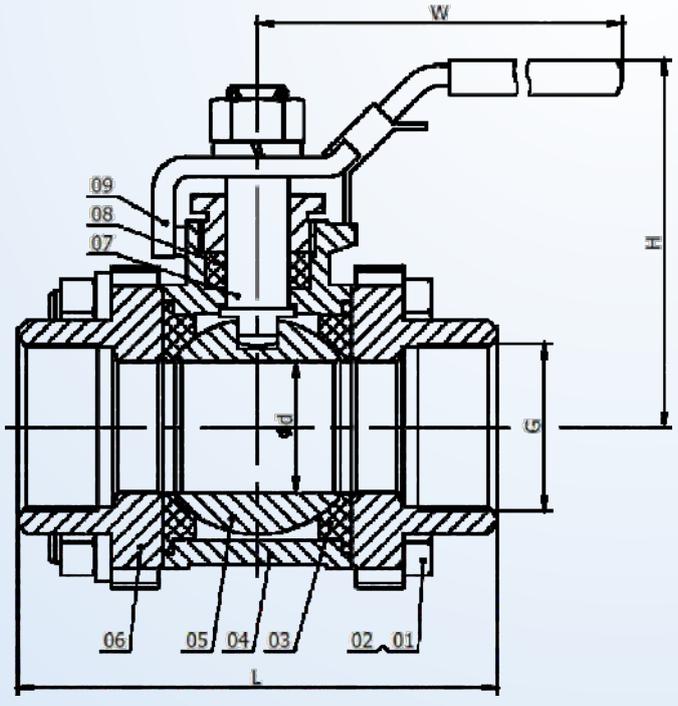
*Break Away*  
Brand Valves

### FIG 4164I/3 3 PIECE STAINLESS STEEL BALL VALVE SCR, 316 SS

- Technical Specification :
1. Design and manufacture: ASME B16.34 GB/T12237
  2. Threaded ends : PT, BSPT, BSP, NPT
  3. Product Style :
  4. Working Pressure: 1000PSI
  5. Temperature Range: -20°C ~ 180°C
  6. Material: ASTM-A351-CF8M, ASTM-A351-CF8, ASTM-A216-WCB
  7. Test & Inspection: API598 JB/T9092



NPS	L	d	G	H	W	App Weight Kg
DN 1/4"	67	12	NPT/BSP/BSPT	48	90	0.36
DN 3/8"	65	12	NPT/BSP/BSPT	48	90	0.34
DN 1/2"	63	15	NPT/BSP/BSPT	52	102	0.42
DN 3/4"	71	20	NPT/BSP/BSPT	54	102	0.58
DN 1"	80	25	NPT/BSP/BSPT	68	125	0.76
DN 1 1/4"	94	32	NPT/BSP/BSPT	78	140	1.35
DN 1 1/2"	104	38	NPT/BSP/BSPT	84	160	1.65
DN 2"	124	49	NPT/BSP/BSPT	95	170	2.3
DN 2 1/2"	166	65	NPT/BSP/BSPT	130	210	4.5
DN 3"	195	78	NPT/BSP/BSPT	140	230	6.85
DN 4"	254	100	NPT/BSP/BSPT	170	300	11.3



09	SS+PVC
08	PTFE
07	304/316
06	304/316
05	304/316
04	304/316
03	PTFE
02	201/304/316
01	201/304/316

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

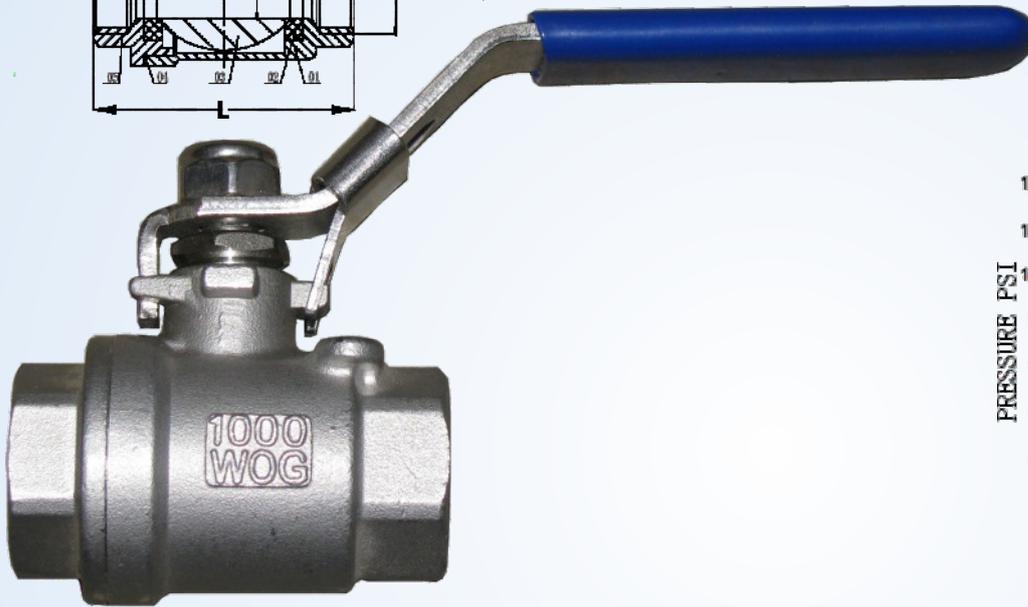
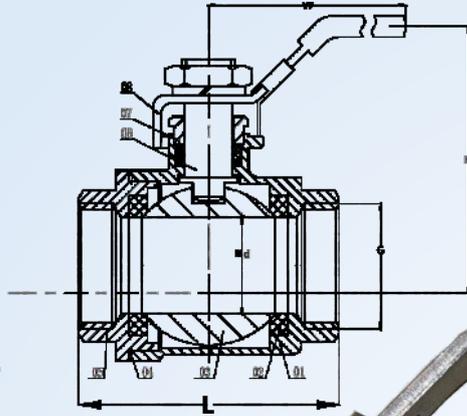
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VALVE

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Brand Valves

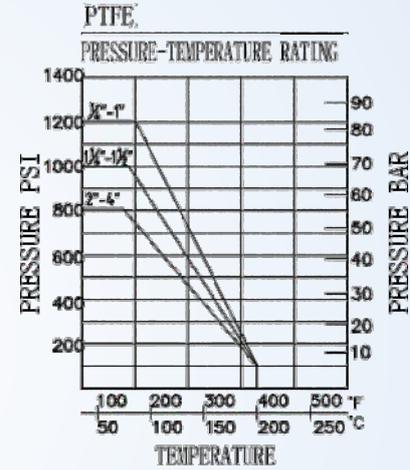
FIG 4164I/2

BMC 2 PIECE SS BALL VALVE 304 SS



**Technical Specification :**

1. Design and manufacture: ASME B16.34 GB/T12237
2. Threaded ends : BSPT, BSP, NPT, DIN2999, DIN259
3. Inspection and test : API598 JB/T9092
4. Product STYLE
5. Working Pressure: 6.4Mpa
6. Temperature Range: -20°C ~ 120°C
7. Material: ASTM-A351-CF8



NPS	L	d	G	H	W	App Weight Kg
DN 1/4"	52	12	NPT/BSP/BSPT	52	100	0.198
DN 3/8"	52	12	NPT/BSP/BSPT	48	102	0.188
DN 1/2"	54.5	15	NPT/BSP/BSPT	54	102	0.225
DN 3/4"	60	20	NPT/BSP/BSPT	57	107	0.294
DN 1"	73.5	25	NPT/BSP/BSPT	72	125	0.488
DN 1 1/4"	83.5	32	NPT/BSP/BSPT	75	125	0.829
DN 1 1/2"	93	38	NPT/BSP/BSPT	92	165	1.028
DN 2"	107	49	NPT/BSP/BSPT	94	170	1.488
DN 2 1/2"	140	64	NPT/BSP/BSPT	124	235	3.165
DN 3"	165	78	NPT/BSP/BSPT	134	235	4.4
DN 4"	203	98	NPT/BSP/BSPT	165	300	9.21

08	SS+PVC
07	PTFE
06	304/316
05	304/316
04	PTFE
03	304/316
02	PTFE
01	304/316

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

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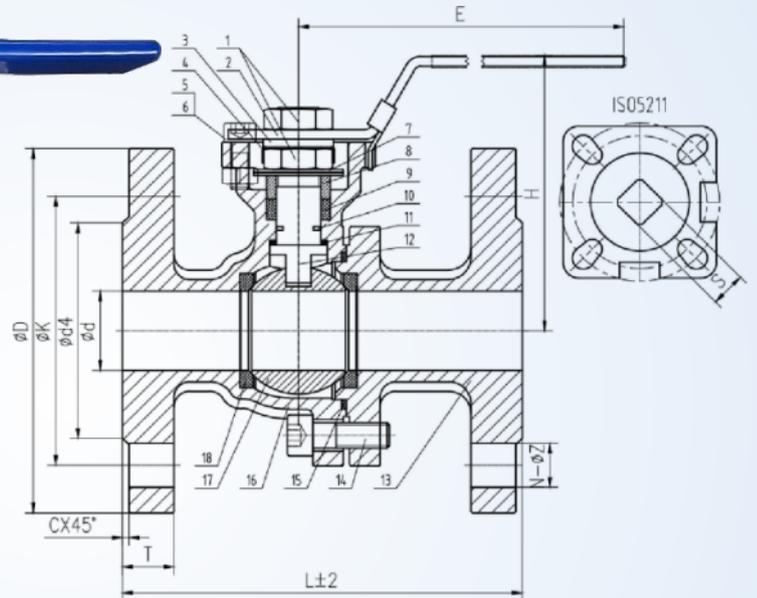
## FIG 4661FI BMC S/S FLANGED BALL VALVES SS 316

### Technical Specification :

1. Design and manufacture: DIN3357
2. Face-to-face dimension : DIN 3202-F4
3. Flanged dimension : EN1092-1
4. Inspection and test : EN12266
5. The platform size : ISO 5211

### Main Technical Parameter

Nominal pressure		150LB	MPa
Test Pre-ssure	Strength test	3.0	
	Seal test	2.2	
Air seal test		0.4~0.7	
Applicable temperature		-29~150°C	
Applicable medium		Water, Oil, Gas	



Size NB	Weight Kg
15	1.48
20	1.84
25	2.73
32	3.8
40	4.68
50	6.75
65	11
80	13.38
100	21.5
150	45
200	72

SIZE	DN	D	L	h	A	E	D1	t	D2	D3	n-ød	ISO5211
1/2"	15	15	108	48	43	125	34.9	9.6	60.3	90	4-15.9	F03/F04
3/4"	20	20	117	53	43	125	42.9	11.2	69.9	100	4-15.9	F03/F04
1"	25	25	127	58	50	155	50.8	12.7	79.4	110	4-15.9	F04/F05
1 1/4"	32	32	140	62	50	155	63.5	14.3	88.9	115	4-15.9	F04/F05
1 1/2"	40	38	165	75	68	195	73	15.9	98.4	125	4-15.9	F05/F07
2"	50	50	178	85	68	195	92.1	17.5	120.7	150	4-19.1	F05/F07
2 1/2"	65	65	190	104	96	260	104.8	20.7	139.7	180	4-19.1	F05/F07
3"	80	78	203	114	96	260	127	22.3	152.4	190	4-19.1	F07/F10
4"	100	98	229	135	96	300	157.2	22.3	190.5	230	8-19.1	F07/F10
6"	150	152	394	206	119	550	216	25.4	241.5	279	8-22.1	F12/F14
8"	200	203	457	269	142	700	270	28.5	298.5	343	8-22.1	F14/F16

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

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Brand Valves

FIG 4733/317

### STAINLESS STEEL TANK LEVEL INDICATORS

\*The Available Thread: BS21

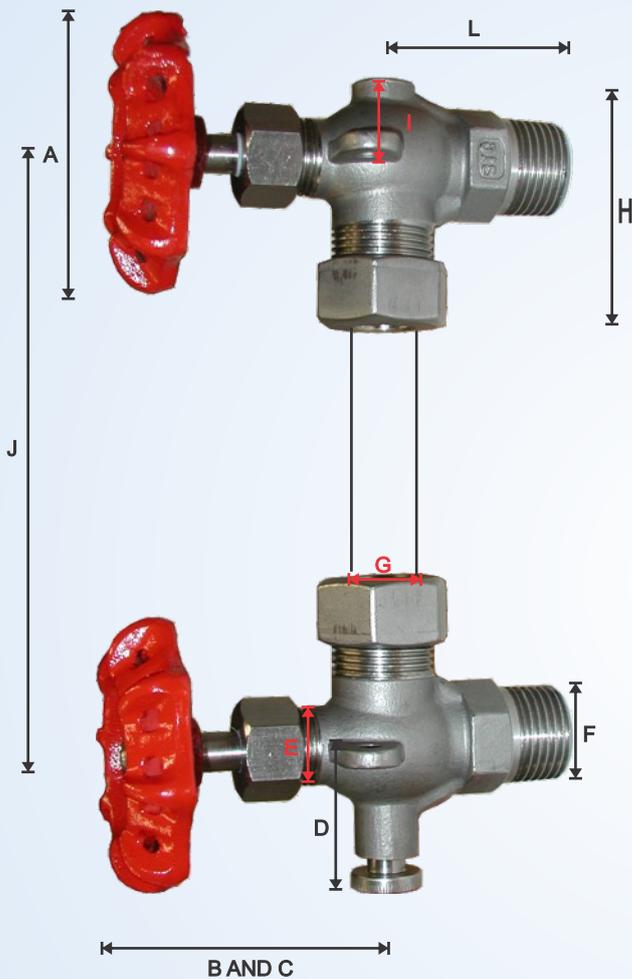
\*Working Pressure: 100 psi

Test Pressure:

Body 230 psi. (Water)
Seat 100 psi. (Water)

Material:

Model:	SS316-WGV
Body:	CF8M
Stem:	CF8M
Disc:	CF8M
Gland:	CF8M
Gland Packing:	PTFE
Packing Nut:	CF8M
Water Relief Valve:	CF8M
Nut:	AISI 316
Gauge Packing:	VITON
Handle:	CAST IRON



SIZE	INCH	1/2 X 1/2	3/4 X 3/4
	MM	13.5 X 13.5	20 X 20
		MM	MM
H1 (Close)	CLOSE	96	117
H2 Height	HEIGHT	40	70
D Handle	HANDLE	53	57
W	WEIGHT KG	0.55	0.83

Size mm	15 NB x 13.5mm Glass	20 NB x 20mm Glass
	Dims mm	Dims mm
A	55	58
B	55	70 - Closed
C	59	82 - Open
D	17	21
E	16	21.6
F	21	26
G	13.5	20
H	35 - No Glass Inserted	35 - No Glass Inserted
I	32	36
J	As Per Clients requirement	As Per Clients requirement
K	22.2	28.2
L	39	45
Weight Kg (Set)	0.58	0.854

Glass tubing Available on Request

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY



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### FIG 20SS THERMODYNAMIC STEAM TRAP STAINLESS STEEL

#### FEATURES

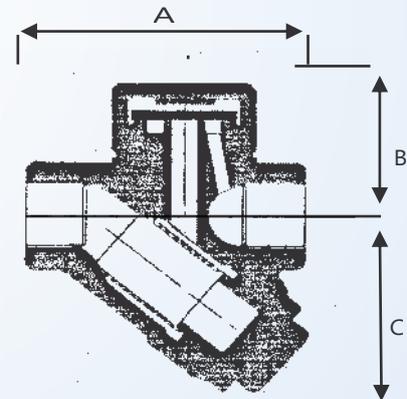
- WORKING PRESSURE 0.3 BAR - 40 BAR
- MAXIMUM BACK PRESSURE SHOULD NOT EXCEED 80 % OF THE INLET PRESSURE
- BSP 21 TAPER THREAD
- ENTIRE CONSTRUCTION IN STAINLESS STEEL FOR EXCELLENT MECHANICAL AND CORROSION RESISTANCE
- HARDENED DISC AND SEAT TO WITHSTAND REPEATED WATER HAMMER
- REPLACEABLE STAINLESS STEEL SCREEN

WORKING PRESSURE (BAR) NON SHOCK

PRIMARY SERVICE	HYDROSTATIC TEST PRESSURE	
40 BAR @250 DEG C	SHELL	80 BAR

#### CAPACITY KG/HR

BAR SIZE MM \	0.3	1	2	3	5	8	10	20	30	40
15	160	180	200	220	260	360	420	590	690	780
20	192	216	240	264	312	432	504	708	828	936
25	320	420	520	740	860	1000	1130	1260	1380	1500



ITEM	SPECIFICATION
BODY	AISI-420
CAP	AISI-420
DISC SEAT	AISI 420
SCREEN	AISI 304
STRAINER/CAP	AISI-420
GASKET	NON-ASBESTOS

SIZE BSP	A	B	C	MASS KG
15	78	41	54	0.85
20	78	41	54	0.85
25	90	54	70	1.4

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

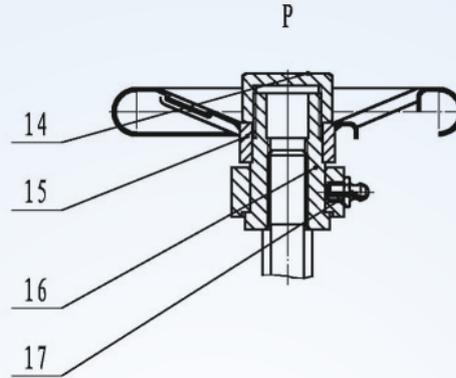
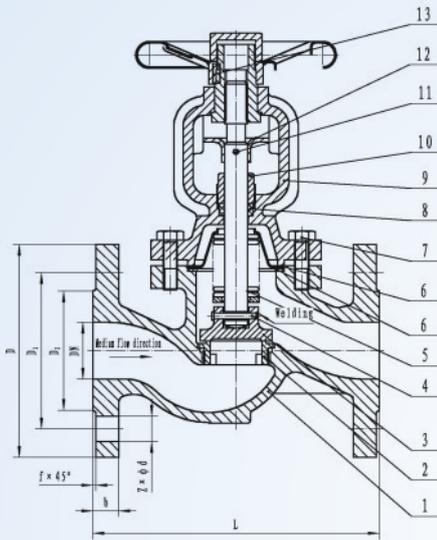
**BMC**  
VALVE

*Break Away*  
Brand Valves

### FIG 7755FBSI BREAKAWAY DUCTILE IRON BELLOW GLOBE VALVE - SIS TRIM

DN15-100

1. Design and Manufacturing standard: DIN 3356
2. FACE TO FACE DIMENSION: DIN3202 F1
3. FLANGED END STANDARD: BS EN1092-2:1997
4. TEST STANDARD: ISO 5208



No.	NAME	MATERIAL
1	BODY(DIN)	DUCTILE IRON
2	SEALING RING	2Cr13
3	FLAP VALVE	2Cr13
4	STRAIGHT PIN	2Cr13
5	BELLOW	304
6	GASKET	08+FLEXIBLE GRAPHITE
7	BOLT	35
8	PACKING	FLEXIBLE GRAPHITE
9	BONNET (DIN)	DUCTILE IRON
10	PLUG SCREW	Q235
11	ELASTIC CYLINDRICAL	45
12	LIMITING PLATE	Q235
13	FLAT KEY TYPE	45
14	NUT (DIN)	Q235
15	HANDWHEEL	Q235
16	STEM NUT	ZCuZn38Mn2Pb2

DN	L	D	b-f	Weight KG Ea
15	130	95	14-2	3.25
20	150	105	16-2	4.1
25	160	115	16-2	5.5
32	180	140	18-2	7.9
40	200	150	18-2	9.3
50	230	165	20-2	13.31
65	290	185	20-2	19.5
80	310	200	22-2	27.1
100	350	220	24-2	38.75

PERFORMANCE SPECIFICATION		
NOMINAL DIAMETER	DN15-100	
NOMINAL PRESSURE Mpa	1.6	
SUITABLE TEMPERATURE	<200	
TEST PRESSURE	SEAL UP (GAS)	0.6
	CASING (WATER)	2.4
APPLICABLE MEDIUM	WATER, STEAM, OIL	

TORQUE FIGURES	
DN	nM Torque (Excludes Safety Factor)
15	20
20	20
25	20
32	20
40	24
50	38
65	48
80	79
100	98

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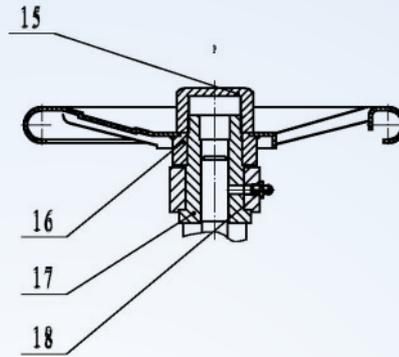
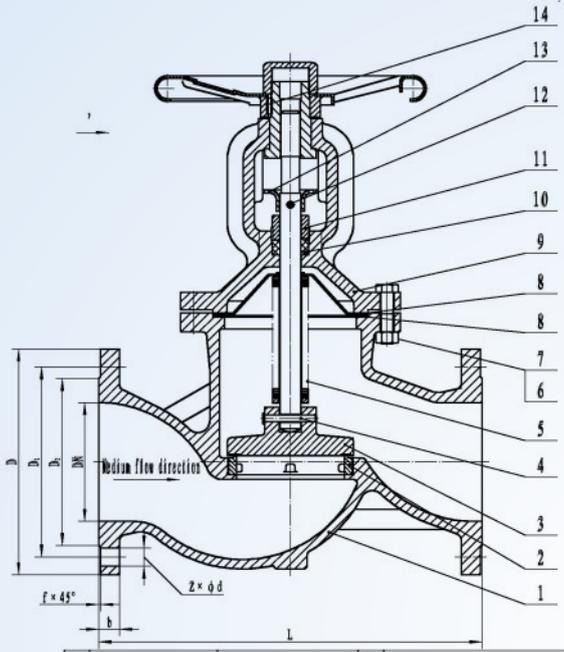
# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
VALVE

*Break Away*  
Brand Valves

## FIG 7755FBSI BREAKAWAY DUCTILE IRON BELLOW GLOBE VALVE - SIS TRIM

DN125-200



No.	NAME	MATERIAL
1	BODY(DIN)	DUCTILE IRON
2	SEALING RING	2Cr13
3	FLAP VALVE	2Cr13
4	STRAIGHT PIN	2Cr13
5	CORRUGATED PIPE	
6	HEXAGON HEADED BOLT	35
7	SIX HEXAGON NUT	35
8	GASKET	08+FLEXIBLE GRAPHITE
9	BONNET (DIN)	DUCTILE IRON
10	PACKING	FLEXIBLE GRAPHITE
11	PLUG SCREW	Q235
12	ELASCTIC CYLINDRICAL	45
13	LIMITING PLATE	Q235
14	FLAT KEY TYPE	45
15	NUT (DIN)	Q235
16	HANDWHEEL	Q235
17	STEM NUT	ZCuZn38Mn2Pb2
18	OIL FILL CUP	

PERFORMANCE SPECIFICATION		
NOMINAL DIAMETER	DN125-200	
NOMINAL PRESSURE Mpa	1.6	
SUITABLE TEMPERATURE	<200	
TEST PRESSURE	SEAL UP (GAS)	0.6
	CASING (WATER)	2.4
APPLICIABLE MEDIUM	WATER, STEAM, OIL	

DN	L	D	D <sub>2</sub>	b-f	Weight KG Ea
125	400	250	184	26-2	58.31
150	480	285	211	26-2	78
200	600	340	266	30-2	138.3

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**FIG 21 CAST IRON INVERTED BUCKET STEAM TRAP (MODEL B1)**

# Nicoson®

## WHY CHOOSE NICOSON INVERTED BUCKET TRAPS ?

### 1. Water sealed against steam loss

Discharge valve is water sealed. Steam does not reach it.

### 2. Operating against water hammer and hydraulic shock

Cage type water Hammer Resistor can dispersing water hammer or hydraulic shock wave. This prevent the bucket from smashing against and damage the mechanism

### 3. Long life service

Valve and seat are chrome steel hardened, ground and lapped. All other working parts are wear and corrosion resistant stainless steel.

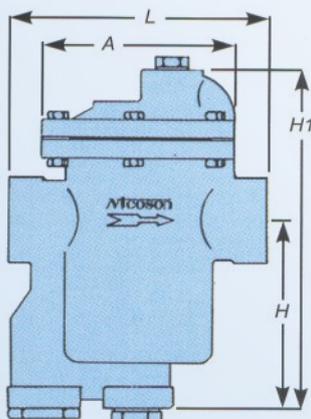
### 4. Continuous air and CO<sub>2</sub> venting

Vent in top of bucket provides continuous automatic air venting and CO<sub>2</sub> venting at steam temperature.

### 5. High back pressure operation

Since trap operation is governed solely by the difference in density of steam and water, back pressure in the return line has no effect on the ability of the trap to open for condensate and close against steam.

## NICOSON INVERTED BUCKET STEAM TRAP SPECIFICATION AND DIMENSIONS



### SCREWED TYPE

Trap Model	connection PT	L M/M	H	H1	A	Weight KG	M.O.P Kg/cm <sup>2</sup>
<b>B1</b>	1/2", 3/4", 1"	128	100	175	96	3.5	10

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
VALVE

*Break Away*  
*Brand Valves*

**FIG 21 CAST IRON INVERTED BUCKET STEAM TRAP (MODEL B1)**

**Micoson**<sup>®</sup>

**CONTINUOUS AIR VENTING**

Vent in top of bucket provides continuous automatic air venting and prevents air binding. Steam passing through the vent is less than that required to compensate for radiation loss from the trap so it is not wasted.

**NAME PLATE**

**NO STEAM LOSS**

Discharge valve is water seal. Steam does not reach it.

**LONG LIFE AND DEPENDABLE SERVICE**

Valve and seat are chrome steel, heat treated, ground and lapped. Free floating valve mechanism is frictionless. Wear points are heavily reinforced.

**INLET**  
→

**OUTLET**  
→

**CO<sup>2</sup> VENTING AT STEAM TEMPERATURE**

Fixed vent passes CO<sup>2</sup> immediately. Since the trap operates on the difference in density between steam and water there is no cooling lag that would permit CO<sup>2</sup> to go into solution and form corrosive carbonic acid.

**CORROSION RESISTANCE**

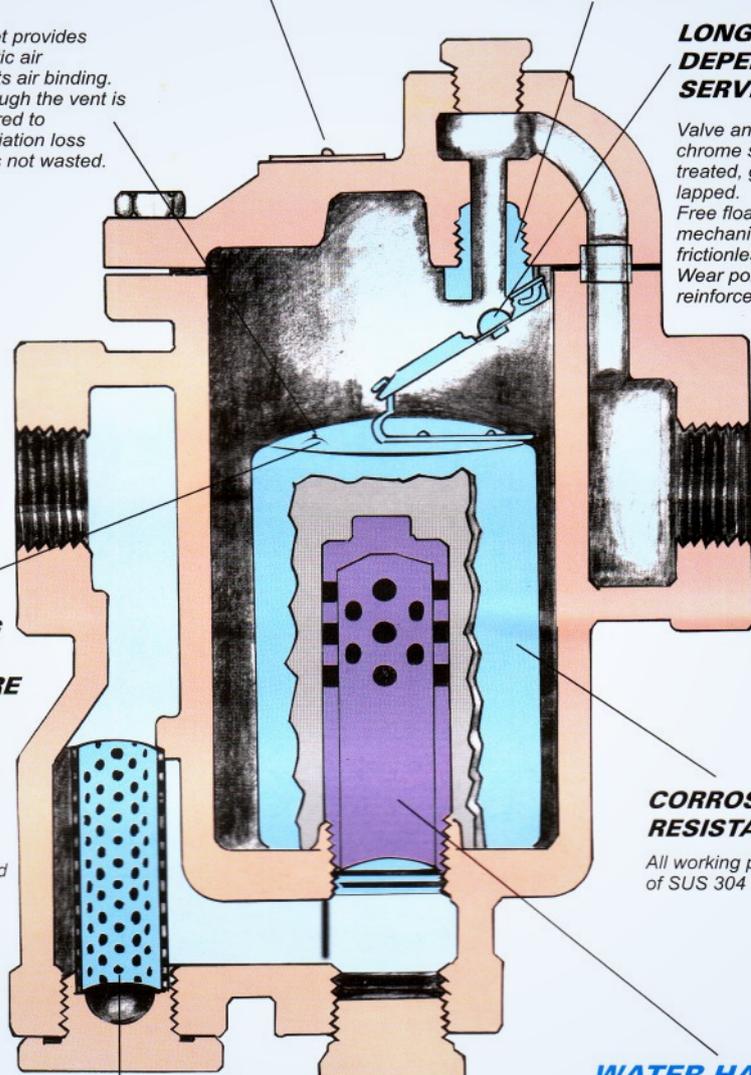
All working parts are made of SUS 304 stainless steel.

**WATER HAMMER RESISTOR**

Cage type water hammer resistor can disperse water hammer or hydraulic shock wave. This prevents the bucket from smashing against and damaging the mechanism.

**INTEGRAL STRAINER DESIGN IS FREE FROM DIRT PROBLEMS**

Stainless steel integral strainer, dirt does not reach trap.



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**FIG 21 CAST IRON INVERTED BUCKET STEAM TRAP (MODEL B1)**

**Micoson**<sup>®</sup>

## **NICOSON INVERTED BUCKET TRAPS CAPACITY TABLE**

Trap Model	Trap Max. Operating Pressure kg/cm <sup>2</sup>	CAPACITY IN KG/HR AT INLET DIFFERENTIAL PRESSURE kg/cm <sup>2</sup>									
		1	2	3	5	6	8	10			
B1,	3	350	480	510							
	5	240	330	380	450						
	10	180	240	290	350	370	400	400			

Inverted bucket steam trap selection using NICOSON CAPACITY TABLE is easy, when you know the Condensate load, Safty factor and Pressure differential.

EXAMPLE;

Given :

1. Steam supply — 8 kg/cm<sup>2</sup>
2. Condensate load — 600 kg/hr
3. Safty factor —3

Time 3 to 600 = 1,800 kg/hr

Enter Table on Max. Operating pressure 10 kg/cm<sup>2</sup> row at 8 kg/cm<sup>2</sup> Inlet differential pressure.

We find Trap Model B3, Max. Operating Pressure 10 kg/cm<sup>2</sup> type, Capacity is 2,100 kg/hr. Can handle that jobs.

### **List Of Materials, NICOSON Cast Iron Traps**

<b>Name of part</b>	<b>Material</b>
Cap and Body	Tensile Cast Iron Fc 22
Valve Seat	Heat Treated Chrome Steel
Valve	Heat Treated Chrome Steel
Gasket	Compressed Asbestos
Lever	Stainless Steel SUS 304
Valve Retainer	Stainless Steel SUS 304
Bucket	Stainless Steel SUS 304
Integral Strainer	Stainless Steel SUS 304
Water hsmmer	Steel
Resister	

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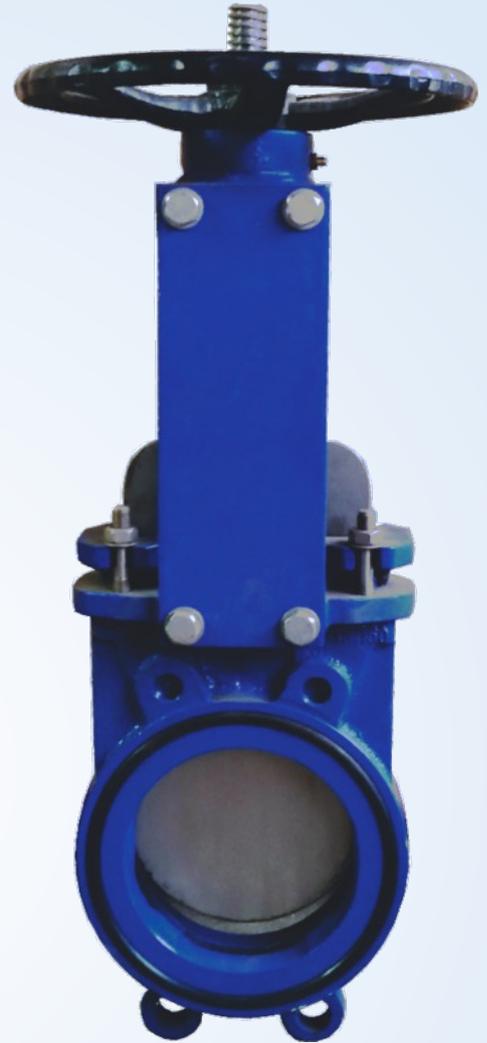
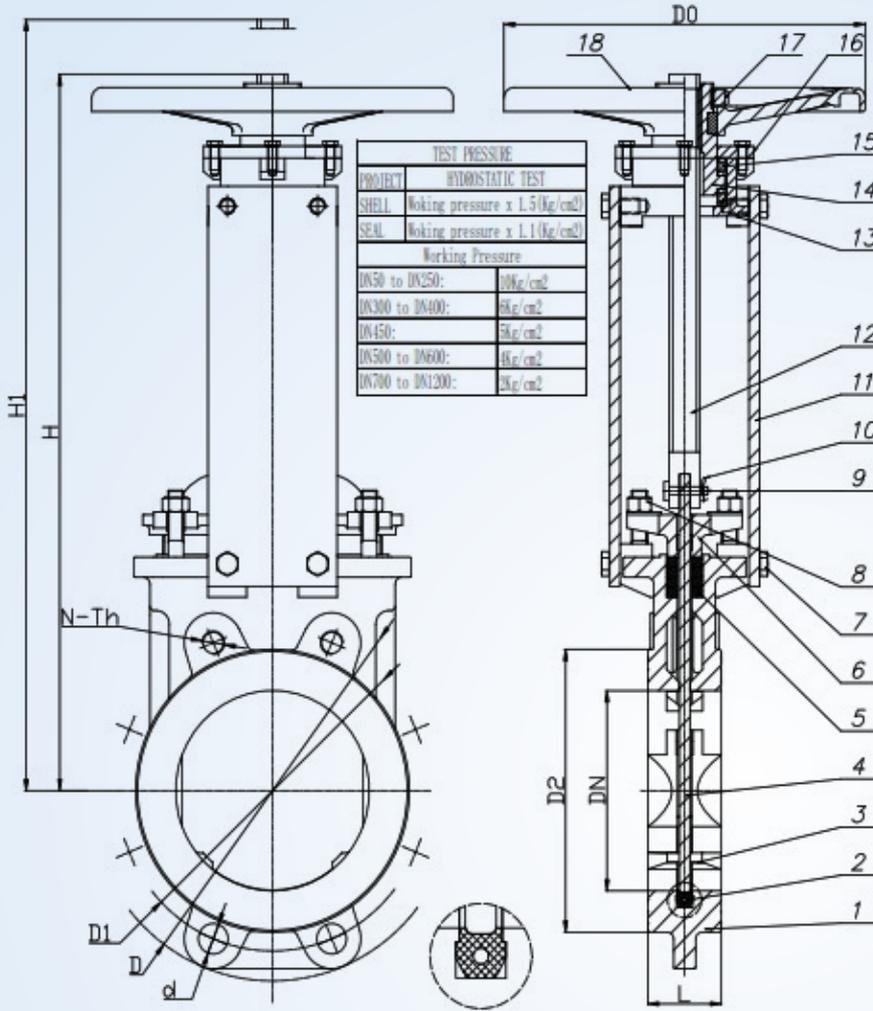
# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

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**FIG 11RS CAST IRON KNIFE GATE VALVE RISING SPINDLE**



No.	Name	Material
1	Body	HT200
2	Sealing	EPDM
3	Lugs	HT200
4	Disc	304
5	Packing	PTFE
6	Gland	WCB
7	Bolt	201
8	Nut/Bolt	201
9	Pin	201 or WCB (DN150-DN400)
10	Split pin	201
11	Yoke	A3
12	Stem	2Cr13
13	Yoke Head	WCB
14	Stem Nut	Brass
15	Bearing	ZChSnSb10-6
16	Yoke head cap	A5#
17	Nut	201
18	Handwheel	GGG40

DN (mm)	Normal Size									Weight (Kg)
	size									
	L	D	D1	D2	D0	N-Th	d	H	H1	
50	48	165	125	99	180	4-M16	Ø18	295	360	8
65	48	185	145	118	180	4-M16	Ø18	335	415	10
80	51	200	160	132	220	8-M16	Ø18	360	455	13
100	51	220	180	156	240	8-M16	Ø18	400	515	16
125	57	250	210	184	240	8-M16	Ø18	455	595	21
150	57	285	240	211	280	8-M20	Ø23	510	675	26
200	60	340	295	266	300	12-M20	Ø23	585	805	33
250	70	405	355	319	320	12-M24	Ø27	695	965	54
300	76	460	410	370	320	12-M24	Ø27	765	1085	66
350	76	520	470	429	350	16-M24	Ø27	880	1250	91
400	89	580	525	480	350	16-M27	Ø30	995	1415	121

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# Rubber Bellows

<b>Page</b>	<b>Product</b>	<b>FIG#</b>
<b>67</b>	<b>Bellows, Rubber Screwed BSP</b>	<b>FLE/SCR</b>
<b>68-69</b>	<b>Bellows, Rubber Flanged to Tables, D, 1000/3 and 1600/3</b>	<b>FLE</b>

# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

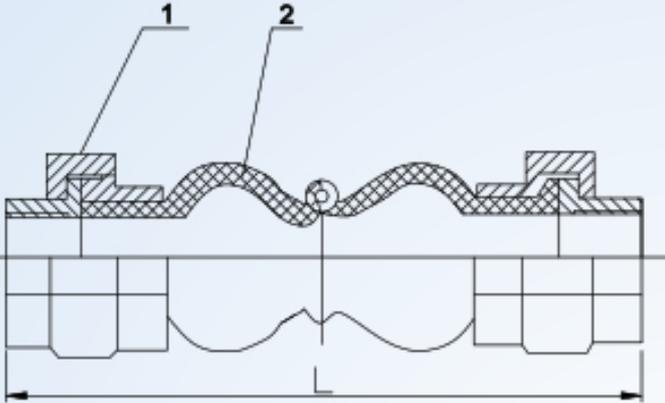
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**FLEI/SCR**

**Pn16 Rubber Flexible Screwed**



### 2. DIMENSIONS

SIZE		L	Axial displacement		Horizontal	Angular. (°)
in	DN		Extension	Compression		
1/2	15	200	6	22	22	32
3/4	20	200	6	22	22	32
1	25	200	6	22	22	25
1 1/4	32	200	6	22	22	25
1 1/2	40	200	6	22	22	20
2	50	200	6	22	22	15
2 1/2	65	265	6	22	22	12
3	80	285	6	22	22	10

### 1. STANDARD MATERIALS OF MAIN PARTS

ITEM	PART NAME	MATERIAL
1	Joint	Malleable Iron
2	liner	EPDM



Weight Kg		
EXPANSION JOINT SCREW END #FLEI/SCR	DN15	0.5
	DN20	0.7
	DN25	1.2
	DN32	1.5
	DN40	2
	DN50	2.6

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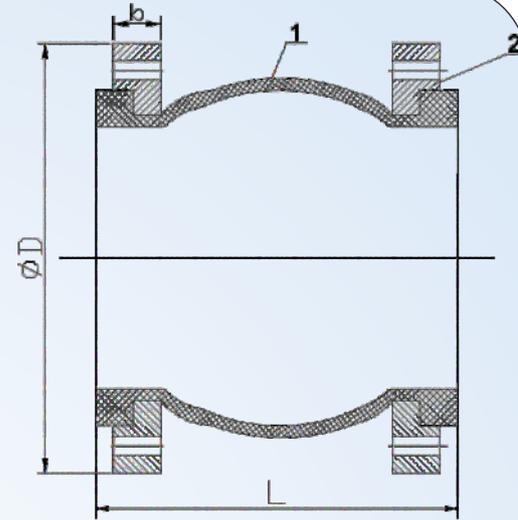
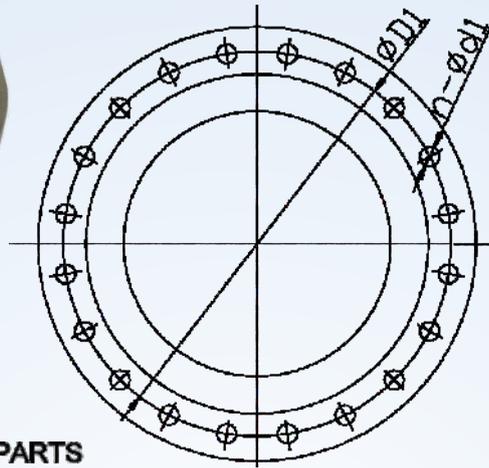
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**FIG FLEI**

**RUBBER FLEXIBLES FLANGED**



**1. STANDARD MATERIALS OF MAIN PARTS**

NO.	NAME	MATERIAL
1	Sphere	EPDM
2	Flange	CARBON STEEL

	Weight Kg	
RUBBER EXPANSION JOINT SINGLE BALL TYPE FLANGE: CARBON STEEL: SANS PN10 RUBBER: EPDM #FLEI/1000/3	DN25	2.5
	DN32	2.8
	DN40	3.6
	DN50	5
	DN65	6
	DN80	7.3
	DN100	8.6
	DN125	11.5
	DN150	14.5
	DN200	20
RUBBER EXPANSION JOINT SINGLE BALL TYPE FLANGE: CARBON STEEL: SANS PN16 RUBBER: EPDM FLEI/1600	DN250	24
	DN300	31
	DN50	5
	DN65	6
	DN80	7.3
	DN100	8.6
	DN125	11.5
	DN150	14.5
	DN200	20
	DN250	28
RUBBER EXPANSION JOINT SINGLE BALL TYPE FLANGE: CARBON STEEL: TABLE D RUBBER: EPDM FLEI/TD/3	DN300	34
	DN350	40
	DN400	55
	DN450	69
	DN500	86
	DN50	5
	DN65	6
	DN80	7.3
	DN100	8.6
	DN125	11.5

SIZE		L	SANS T1000/3			SANS T1600/3			TABLE D		
in	DN		D	D1	n-d1	D	D1	n-d1	D	D1	n-d1
1	25	95	115	85	4-14	115	85	4-14			
1.25	32	95	140	100	4-18	140	100	4-18			
1.5	40	95	150	110	4-18	150	110	4-18			
2	50	105	165	125	4-18	165	125	4-18	152	114.3	4-18
2.5	65	115	185	145	4-18	185	145	4-18	165	127	4-18
3	80	135	200	160	8-18	200	160	8-18	184	146	4-18
4	100	150	220	180	8-18	220	180	8-18	216	177.8	4-18
5	125	165	250	210	8-18	250	210	8-18	254	209.5	8-18
6	150	180	285	240	8-22	285	240	8-22	280	235	8-18
8	200	210	340	295	8-22	340	295	12-22	336	292	8-18
10	250	230	395	350	12-22	405	355	12-26	406	355.5	8-22
12	300	245	445	400	12-22	460	410	12-26	457	406.5	12-22
14	350	255	505	460	16-22	520	470	16-26	527	470	12-26
16	400	255	565	515	16-26	580	525	16-26	578	520.5	12-26
18	450	255	615	565	20-26	640	585	20-26	641	584	12-26
20	500	255	670	620	20-26	715	650	20-33	705	641	16-26
24	600	260	840	770	20-26	840	770	20-33	825	755.5	16-29

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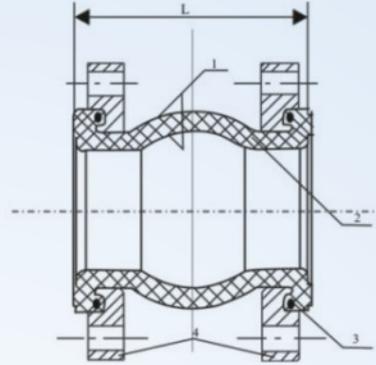
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**FIG FLEI**

**RUBBER FLEXIBLES FLANGED**



Nominal diameter DN		Length L ( mm )	Axial displacement		Lateral displacement (mm)	Deflexion angle (a1+a2)
DN	inch		Extension	Compression		
32	1.25	95/130/152	6	9	9	15
40	1.5	95/130/152	6	10	9	15
50	2	105/130/152	7	10	10	15
65	2.5	115/130/152	7	13	11	15
80	3	130/135/152	8	15	12	15
100	4	130/135/150	10	19	13	15
125	5	130/152/165	12	19	13	15
150	6	130/152/180	12	20	14	15
200	8	130/152/180/200/210	16	25	22	15
250	10	130/200/230/240	16	25	22	15
300	12	130/200/245/260	16	25	22	15
350	14	200/255/265	16	25	22	15
400	16	200/255/265	16	25	22	15
450	18	200/255/265	16	25	22	15
500	20	200/255	16	25	22	15
600	24	200/260	16	25	22	15
700	28	260	16	25	22	15
800	32	260	16	25	22	15
900	36	260	16	25	22	15
1000	40	260	18	26	24	15
1200	48	260	18	26	24	15

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# Pressure Gauges and Related

<b>Page</b>	<b>Product</b>	<b>FIG#</b>
71-72	Pressure Gauges, Dry and Glycerine filled, in 50, 63 and 100mm Dials	# PBG# PBU
73-79	Thermometers - Dial Type, Straight and Angle Types	# TTAI # TTSI
18-19	Gauge Cocks - Brass	# 2910i
80	Syphon Tubes - Pigtail and U types	# STUI # STPI

# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
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## BMC Pressure Gauges

**Bourdon tube pressure gauge  
Standard version  
Model 115A**

**Mechanical pressure movement**

### Applications

- For measuring points with high dynamic pressure loads or vibrations
- For gaseous and liquid media that are not highly viscous or crystallising and will not attack copper alloy parts
- Hydraulics
- Compressors, shipbuilding

### Special features

- Vibration and shock resistant
- Design per EN 837-1
- Nominal size 40, 50, 63, 80 and 100
- Scale ranges up to -1... 0 ... 1000 bar

### Description

- Nominal size in mm: 40, 50, 63, 80 and 100
- Accuracy class:
  - NS 40: 2.5
  - NS 50,63,80: 1.6
  - NS 100: 1.0
- Scale ranges: 0 ... 0.6 to 0 ... 1000 bar or all equivalent vacuum or combined pressure and vacuum ranges
- Pressure limitation
  - NS 40,50, 63:
    - Steady: 3/4 x full scale value
    - Fluctuating: 2/3 x full scale value
    - Short time: Full scale value
  - NS 100: Steady: Full scale value
  - Fluctuating: 0.9 x full scale value
  - Short time: 1.3 x full scale value
- Permissible temperature:
  - Ambient: -20 ... +60 °C
  - Medium: +60 °C maximum
- Temperature effect:
  - When the temperature of the measuring system deviates from the reference temperature (+20 °C): max.  $\pm 0.4 \%$ /10 K of the span



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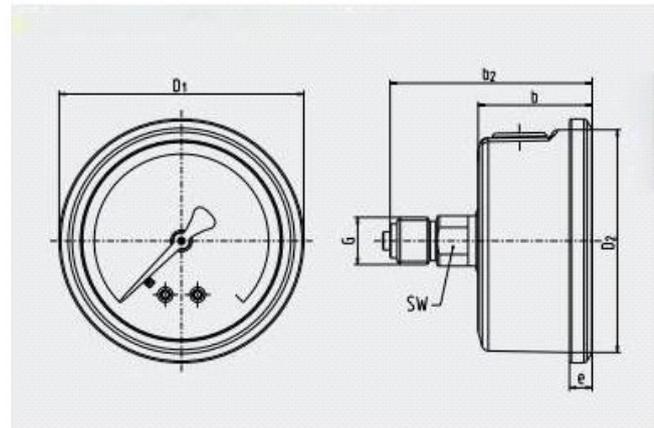
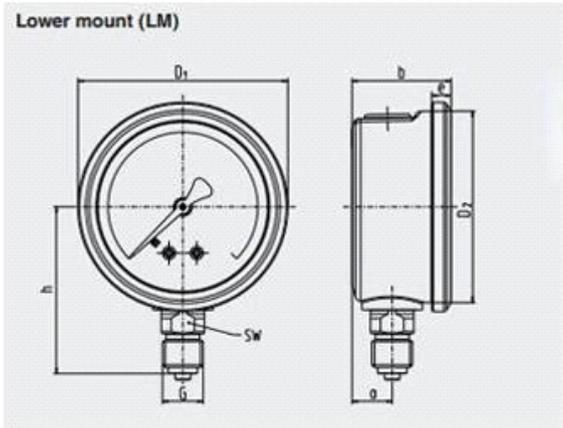
### BMC Pressure Gauges

#### Standard version

- Process connection: Copper alloy lower mount (LM) or back mount (BM)
- Pressure element (bourdon tube): Copper alloy C-type or helical type
- Movement: Copper alloy
- Dial: Aluminum, dial scale can be customized
- Pointer: Aluminum, black or white
- Window: Poly-carbonate
- Case: polished or matte stainless steel
- O-ring seal between case and connection.
- Bezel ring: Crimp ring or bayonet bezel
- Filling liquid: Glycerine or silicone

#### Dimensions in mm

##### Standard version



NS	Dimensions in mm										Weight in kg
	a	b ±0.5	b <sub>2</sub> ±0.5	D <sub>1</sub>	D <sub>2</sub>	e	f	G	h ±1	SW	
40	11	28	49	43	40	5	-	G 1/8 B	41	11	0.11
50	12	30	55	55	50	5.5	-	G 1/4 B	48	14	0.15
63	13	32	56	68	62	6.5	-	G 1/4 B	54	14	0.21
100	14.5	39	59	110	100	7	-	G 1/2 B	77	22	0.41

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
VALVE

*Break Away*  
*Brand Valves*

## BMC Thermometers

### Applications

- Universal application
- Machine building
- Tank construction
- Central heating systems
- Plant construction

### Special Features

- Vibration resistant
- Non-toxic thermometer liquid
- Measuring ranges from -30 ... +200 °C



Machine Glass Thermometer Model 32, 90° angle design

### Description

#### Nominal size in mm

110, 150 and 200

#### Measuring principle

Liquid expansion

#### Limit of error

DIN 16195

#### Approval

Germanischer Lloyd for straight design and 90° angle design

#### Pressure rating of stem

Max. 6 bar

#### Stem

Ø 10 mm

Ø 6.5 mm with NS 200 x 36 with union nut M24 x 1.5

#### Case

Aluminium, brass colour anodised

#### Lettering

Print with special ink, protected by anodised finish

#### Thermometer glass insert

Rod shape, prismatic capillaries

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## BMC Thermometers

### Nominal size 110 x 30 mm

**Design of connection**  
Design E, male thread

■ **Straight design per DIN 16181**

Male thread  
- G ½ B, M20 x 1.5 (Form B per DIN)  
- G ¾ B, M16 x 1.5 (Form B1 per DIN)  
Male thread screwed into case  
Stem length  $l_1 = 30, 40, 63, 100, 160, 250$  mm  
Cu-alloy

■ **90° angle design per DIN 16182**

Male thread  
- G ½ B, M20 x 1.5 (Form S per DIN)  
- G ¾ B, M16 x 1.5 (Form S1 per DIN)  
Male thread inserted into case, removable  
Stem length  $l_1 = 30, 40, 63, 100, 160, 250$  mm  
Cu-alloy

■ **135° angle design**

Male thread  
- G ½ B, M20 x 1.5  
- G ¾ B, M16 x 1.5  
Male thread screwed into case  
Stem length  $l_1 = 30, 40, 63, 100, 160, 250$  mm  
Cu-alloy

### Scale ranges

Scale range in °C	Scale spacing in °C	Limit of error in °C	Thermometric liquid
-30 ... +50	1	2	blue, wetting
0 ... +60	1	1.5	blue, wetting
0 ... +100	2	2	blue, wetting
0 ... +120	2	2	blue, wetting
0 ... +160	4	4	blue, wetting
0 ... +200	5	5	blue, wetting

### Models

Model	Location of stem	DIN
G 3200	straight	DIN 16181
W 3201	90° angle	DIN 16182
W 3202	135° angle	-

### Nominal size 150 x 36 mm

**Design of connection**  
Design E, male thread

■ **Straight design per DIN 16185**

Male thread  
- G ½ B, M20 x 1.5 (Form B per DIN)  
- G ¾ B, M27 x 2  
Male thread screwed into case  
Stem length  $l_1 = 63, 100, 160, 250$  mm  
Cu-alloy

■ **90° angle design per DIN 16186**

Male thread  
- G ½ B, M20 x 1.5 (Form S per DIN)  
- G ¾ B, M27 x 2  
Male thread inserted into case, removable  
Stem length  $l_1 = 63, 100, 160, 250$  mm  
Cu-alloy

■ **135° angle design**

Male thread  
- G ½ B, M20 x 1.5  
- G ¾ B, M27 x 2  
Male thread screwed into case  
Stem length  $l_1 = 63, 100, 160, 250$  mm  
Cu-alloy

### Scale ranges

Scale range in °C	Scale spacing in °C	Limit of error in °C	Thermometric liquid
-30 ... +50	1	2	blue, wetting
0 ... +60	1	1.5	blue, wetting
0 ... +100	2	2	blue, wetting
0 ... +120	2	2	blue, wetting
0 ... +160	2	4	blue, wetting
0 ... +200	2	4	blue, wetting

### Models

Model	Location of stem	DIN
G 3210	straight	DIN 16185
W 3211	90° angle	DIN 16186
W 3212	135° angle	-

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

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## BMC Thermometers

### Nominal size 200 x 36 mm

#### Design of connection

Design E, male thread

#### ■ Straight design per DIN 16189

Male thread

- G ½ B, M20 x 1.5 (Form B1 per DIN)
- G ¾ B, M27 x 2 (Form B per DIN)

Male thread screwed into case

Stem length  $l_1 = 63, 100, 160, 250$  mm

Cu-alloy

#### ■ Bauart 90° winklig nach DIN 16190

Male thread

- G ½ B, M20 x 1.5 (Form S1 per DIN)
- G ¾ B, M27 x 2 (Form S per DIN)

Male thread inserted into case, removable

Stem length  $l_1 = 63, 100, 160, 250$  mm

Cu-alloy

#### ■ Bauart 135° winklig

Male thread

- G ½ B, M20 x 1.5 (Form B1 per DIN)
- G ¾ B, M27 x 2 (Form B per DIN)

Male thread screwed into case

Stem length  $l_1 = 63, 100, 160, 250$  mm

Cu-alloy

#### Scale ranges

Scale range in °C	Scale spacing in °C	Limit of error in °C	Thermometric liquid
-30 ... +50	1	2	blue, wetting
0 ... +60	1	1.5	blue, wetting
0 ... +100	1	2	blue, wetting
0 ... +120	1	2	blue, wetting
0 ... +160	2	4	blue, wetting
0 ... +200	2	4	blue, wetting

#### Models

Model	Location of stem	DIN
G 3220	straight	DIN 16189
W 3221	90° angle	DIN 16190
W 3222	135° angle	DIN 16191

### Options (for all nominal sizes)

- Dual scale °F/°C
- Other scale ranges
- Male thread made of other materials
- Thermowells per DIN made of Cu-alloy, steel, stainless steel or other materials

#### Design of connection (of choice)

Design 3, union nut

#### ■ Straight design per DIN 16189

Union nut

- G ½, M20 x 1.5 (Form C1 per DIN)
- G ¾, M27 x 2 (Form C per DIN)
- M24 x 1.5 (Form F per DIN)

Connection piece screwed into case, removable

Stem length  $l_1$ :

- Form C1:  $l_1 = 89, 126, 186, 276, 426$  mm
- Form C:  $l_1 = 93, 130, 190, 280, 430$  mm
- Form F:  $l_1 = 155, 215, 275, 295, 355, 415$  mm

Union nut and connection piece in Cu-alloy, tube in St. 35 steel

#### ■ 90° angle per DIN 16190

Union nut

- G ½, M20 x 1.5 (Form C1 per DIN)
- G ¾, M27 x 2 (Form C per DIN)
- M24 x 1.5 (Form F per DIN)

Connection piece inserted into case, removable

Stem length  $l_1$ :

- Form C1:  $l_1 = 89, 126, 186, 276, 426$  mm
- Form C:  $l_1 = 93, 130, 190, 280, 430$  mm
- Form F:  $l_1 = 155, 215, 275, 295, 355, 415$  mm

Union nut and connection piece in Cu-alloy, tube in St. 35 steel

#### ■ 135° angle per DIN 16191

Union nut

- G ½, M20 x 1.5 (Form C1 per DIN)
- G ¾, M27 x 2 (Form C per DIN)
- M24 x 1.5 (Form F per DIN)

Connection piece inserted into case, removable

Stem length  $l_1$ :

- Form C1:  $l_1 = 89, 126, 186, 276, 426$  mm
- Form C:  $l_1 = 93, 130, 190, 280, 430$  mm
- Form F:  $l_1 = 155, 215, 275, 295, 355, 415$  mm

Union nut and connection piece in Cu-alloy, tube in St. 35 steel

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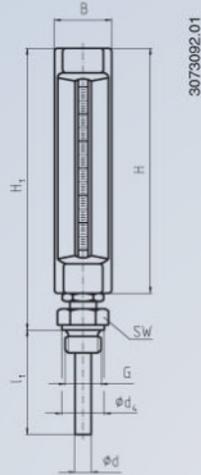
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### BMC Thermometers

#### Dimensions in mm

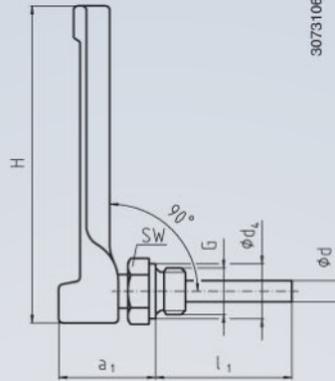
##### Design of connection E, male thread

straight



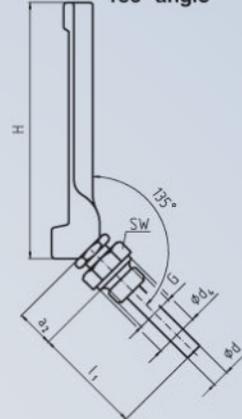
3073092.01

90° angle



3073106.01

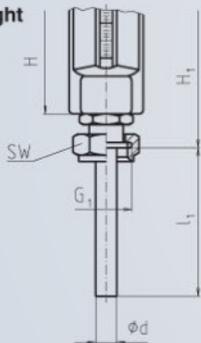
135° angle



3073114.01

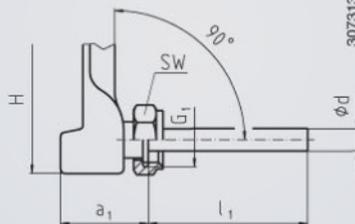
##### Design of connection 3, union nut (only with NS 200)

straight



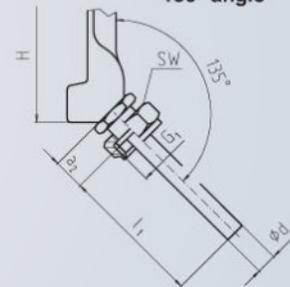
3073122.01

90° angle



3073130.01

135° angle



3073181.01

NS	Dimensions in mm			Ø d	Ø d <sub>1</sub>	G	G <sub>1</sub>	H	H <sub>1</sub>	SW	Weight in kg
	a <sub>1</sub>	a <sub>2</sub>	B								
110	44	20	30	10	22	G 3/8 B	-	110	130	22	0.25
110	44	20	30	10	21	M16 x 1.5	-	110	130	22	0.25
110	44	20	30	10	26	G 1/2 B	-	110	130	27	0.25
110	44	20	30	10	25	M20 x 1.5	-	110	130	27	0.25
150	46	21	36	10	26	G 1/2 B	-	150	170	27	0.30
150	46	21	36	10	25	M20 x 1.5	-	150	170	27	0.30
150	46	21	36	10	32	G 3/4 B	-	150	170	32	0.30
150	46	21	36	10	32	M27 x 2	-	150	170	32	0.30
200	46	21	36	10	26	G 1/2 B	G 1/2	200	220	27	0.35
200	46	21	36	10	25	M20 x 1.5	M20 x 1.5	200	220	27	0.35
200	46	21	36	10	32	G 3/4 B	G 3/4	200	220	32	0.35
200	46	21	36	10	32	M27 x 2	M27 x 2	200	220	32	0.35
200	46	21	36	6.5	-	-	M24 x 1.5	200	220	32	0.35

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## FIG : TDI

## Thermometer Dial Type

Mechanical  
temperature measurement

**Bimetal thermometer  
Standard version  
Model 213A**

### Applications

- A wide range of applications in machine building, vessel, piping and apparatus construction
- Heating technology

### Special features

- Scale ranges from -40 ... +600 °C
- Large choice of nominal sizes from 50 ... 160 mm
- Case and stem from stainless steel
- 5 different connection designs

### Description

- The model 213A bimetal thermometer is the entry-level Model among process thermometers. The target markets of this thermometer are air-conditioning and machine building.
- Model 213A is manufactured in accordance with EN 13190 and already offers a stainless steel case and accuracy class for nominal sizes > 60 mm.
- Especially noteworthy is the large number of stem lengths and nominal sizes. This enables the individual adaptation to the target applications.

### Standard version

- Measuring element: Bimetal coil
- Nominal size in mm: 50, 63, 80, 100, 160
- Connection designs:
  1. Standard (male threaded connection)
  2. Plain stem (without thread)
  3. Male nut
  4. Union nut
  5. Compression fitting (sliding on stem)
- Window: Glass
- Pointer: Aluminum black
- Dial: Aluminum
- Case: stainless steel polished or unpolished
- Bezel and ring: stainless steel rolling ring or bayonet bezel
- Accuracy: 1.6%



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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

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FIG : TDI

### Thermometer Dial Type

- Working range  
Continuous loading: Measuring range per EN 13190  
Short time (24 h max.): Scale range per EN 13190

#### Options

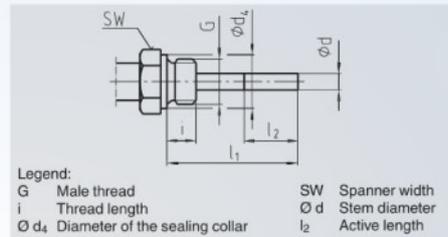
- Scale range ° F, ° C/° F (dual scale)
- Other scale ranges
- Other connection types

#### Connection designs

##### Standard design (male thread connection)

Standard insertion length  $l_1 = 63, 100, 160, 200, 250$  mm

Nominal size	Process connection		Dimensions in mm		
	G	i	SW	$\varnothing d_4$	$\varnothing d$
50	M8 x 1.25	8	12	-	6 or 8
	G 1/4 B	8	17	-	6 or 8
	G 1/4 B	8	17	-	6 or 8
	G 1/2 B	12	22	-	6 or 8
63, 80, 100, 160	G 1/4 B	12	19	18	6 or 8
	G 1/2 B	14	27	26	6 or 8
	M18 x 1.5	12	24	23	6 or 8
	1/2 NPT	19	22	-	6 or 8

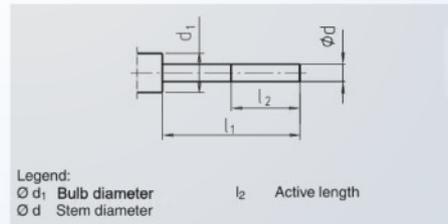


Legend:  
G Male thread  
i Thread length  
 $\varnothing d_4$  Diameter of the sealing collar  
SW Spanner width  
 $\varnothing d$  Stem diameter  
 $l_2$  Active length

##### Design 1: smooth connection (without thread)

Standard-insert length  $l_1 = 45, 63, 100, 140, 160, 200, 240, 290$  mm

Nominal size	Dimensions in mm	
	$d_1$	$\varnothing d$
50	12	6 or 8
63, 80, 100, 160	18	6 or 8

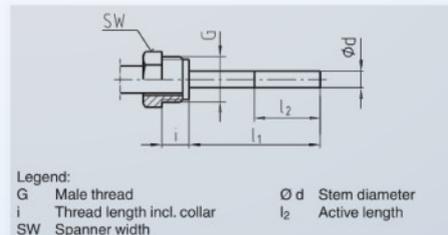


Legend:  
 $\varnothing d_1$  Bulb diameter  
 $\varnothing d$  Stem diameter  
 $l_2$  Active length

##### Design 2, male nut

Standard insertion length  $l_1 = 80, 140, 180, 230$  mm

Nominal size	Process connection		Dimensions in mm	
	G	i	SW	$\varnothing d$
63, 80, 100, 160	G 1/2 B	20	27	6 or 8
	M18 x 1.5	17	22	6 or 8



Legend:  
G Male thread  
i Thread length incl. collar  
SW Spanner width  
 $\varnothing d$  Stem diameter  
 $l_2$  Active length

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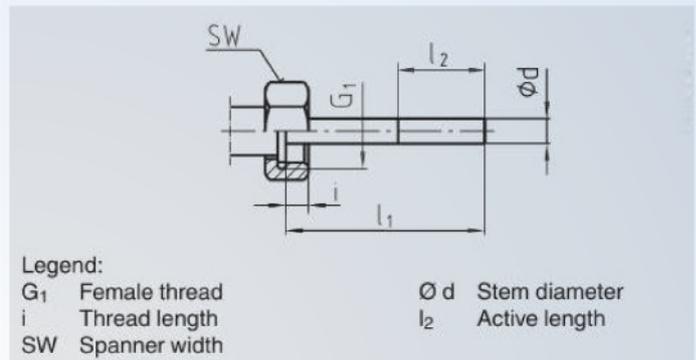
**FIG : TDI**

## Thermometer Dial Type

### Design 3, union nut

Standard insertion length  $l_1 = 89, 126, 186, 226, 276$  mm

Nominal size	Process connection		Dimensions in mm	
	NS	G	i	SW
63, 80, 100, 160	G 1/2	8.5	27	6 or 8
	G 3/4	9.5	32	6 or 8

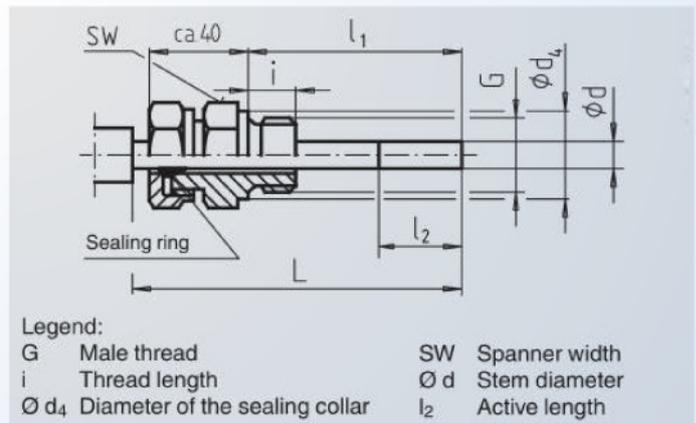


### Design 4, compression fitting (sliding on stem)

Insertion length  $l_1 =$  variable

Length  $L = l_1 + 40$  mm

Nominal size	Process connection		Dimensions in mm		
	NS	G	i	SW	$\varnothing d_4$
63, 80, 100, 160	G 1/4 B	8	22	18	6 or 8
	G 1/2 B	14	27	26	6 or 8
	M18 x 1.5	12	24	23	6 or 8
	1/2 NPT	19	22	-	6 or 8
	G 3/4 B	16	32	32	6 or 8
	3/4 NPT	20	30	-	6 or 8



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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

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### SYPHON TUBES U TYPE AND PIGTAIL

**MODEL:**

	180°
<b>STPI</b>	90°
STUI	

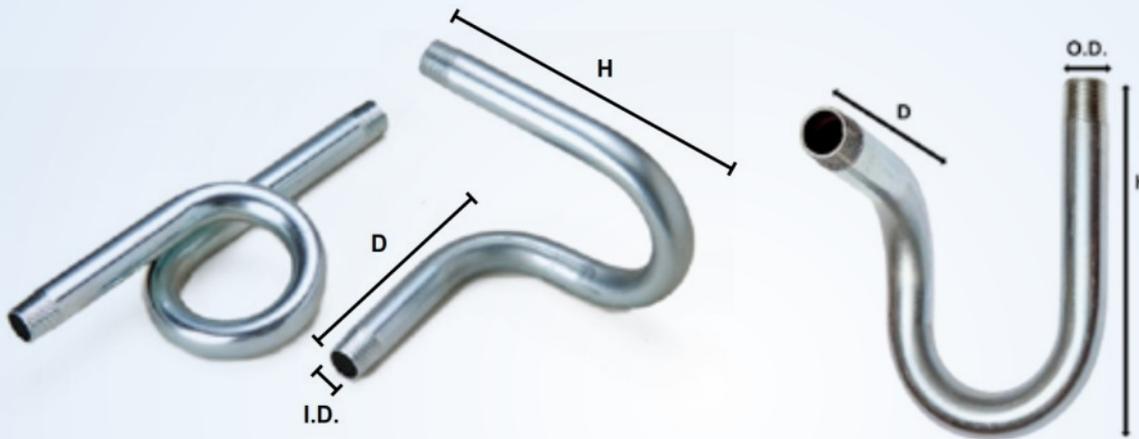
**CARBON STEEL SYPHON TUBE**

O TYPE: WITH BOTH END BSPT 180°

U TYPE: WITH BOTH END BSPT 90°

SIZE: 1/4"~1/2" (Galvanized When Required)

Max 10 Bar Steam/16 Bar Water



**Dimension**

mm

Size	H	D	O.D.	I.D.	T	Weight/kgs	
						STPI	STUI
1/4"	95	89	13.0	9.0	2.0	0.18	0.13
3/8"	128	108	17.0	13.0	2.0	0.268	0.23
1/2"	150	127	21.5	16.5	2.5	0.44	0.38

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# Fittings

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<b>82</b>	<b>Malleable Galvanised and Black Fittings</b>
<b>83</b>	<b>Wrought Steel Fittings e.g. Nipples , Wrought steel Steam Sockets, 1/2 Steam Sockets etc</b>
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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
VALVE

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Brand Valves

## MALLEABLE FITTINGS BLACK AND GALVANISED

		
<b>ELBOWS 90 DEG F/F</b>	<b>ELBOWS 90 DEG M/F</b>	<b>REDUCING ELBOWS</b>
		
<b>ELBOWS 45 DEG F/F</b>	<b>SOCKETS</b>	<b>REDUCING TEE</b>
		
<b>ABNORMAL TEE</b>	<b>EQUAL TEE</b>	<b>REDUCING SOCKETS</b>
		
<b>REDUCING BUSHES</b>	<b>CROSSES</b>	<b>CAPS</b>
		
<b>PLUGS</b>	<b>HEX NIPPLES</b>	<b>JOHNSON COUPLINGS</b>

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## WROUGHT STEEL FITTINGS



**STEAM NIPPLES  
BLACK AND GALV**



**STEAM SOCKETS**



**GALV SWAGE NIPPLES**



**HALF STEAM SOCKETS**

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## JIS/BUTTWELD FITTINGS



**ECCENTRIC REDUCERS**



**ELBOW 45 DEGREE**



**REDUCING TEE**



**CONCENTRIC REDUCER**



**ELBOW 90 DEGREE**



**EQUAL TEE**



**CAPS**

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## PEX AL PEX PIPE, FITTINGS & TOOLS



**PEX MALE STRAIGHT**



**PEX FEMALE STRAIGHT**



**PEX-AL-PEX PIPE**



**PEX PIPE CUTTER**



**HYDRAULIC CRIMP TOOL**



**HAND CRIMP TOOL**

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# Fittings Grooved

<b>Page</b>	<b>Product</b>
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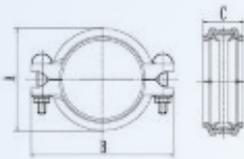
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## Grooved Couplings and Fittings UL FM Approved Painted or Galv



Material : ASTM A536 G65-45-12

### Rigid Coupling



Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions mm/in			Bolt Size No.-Size in
			A mm/in	B mm/in	C mm/in	
25 1	33.7 1.327	300 psi 2.07 Mpa	56 2.20	98 3.85	44 1.74	3/8*45-2
32 1¼	42.4 1.669		65 2.55	108 4.25	44 1.74	3/8*45-2
40 1½	48.3 1.9		72 2.84	114 4.48	44 1.74	3/8*45-2
50 2	60.3 2.375		84 3.30	126 4.96	46 1.81	3/8*55-2
65 2½	73 2.875		97 3.81	140 5.52	46 1.81	3/8*55-2
65 2½	76.1 3		100 3.93	142 5.59	46 1.81	3/8*55-2
80 3	88.9 3.5		114 4.48	154 6.06	46 1.81	3/8*55-2
100 4	108 4.25		135 5.31	186 7.32	50 1.96	1/2*65-2
100 4	114.3 4.5		138 5.43	192 7.55	50 1.96	1/2*65-2
125 5	133 5.25		162 6.37	213 8.38	50 1.96	1/2*75-2
125 5	139.7 5.5		170 6.73	220 8.66	50 1.96	1/2*75-2
125 5	141.3 5.563		171 6.73	222 8.74	50 1.96	1/2*75-2
150 6	159 6.25		190 7.48	241 9.48	50 1.96	1/2*75-2
150 6	165.1 6.5		196 7.71	248 9.76	50 1.96	1/2*75-2
150 6	168.3 6.625		200 7.87	252 9.92	50 1.96	1/2*75-2
200 8	219.1 8.625		258 10.15	322 12.67	60 2.36	5/8*95-2
250 10	273 10.75		318 12.51	400 15.74	62 2.44	3/4*110-2
300 12	323.9 12.750		372 14.64	454 17.87	64 2.51	3/4*120-2

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

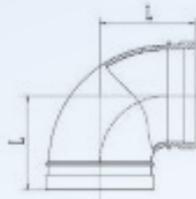
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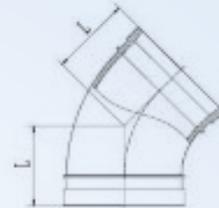
### Grooved Couplings and Fittings UL FM Approved Painted or Galv

#### 90° Elbow

Material : ASTM A536 G65-45-12



#### 45° Elbow



Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
25	33.7	300 psi 2.07 Mpa	57
1	1.327		2.24
32	42.4		60
1¼	1.669		2.36
40	48.3		60
1½	1.9		2.36
50	60.3		70
2	2.375		2.75
65	73		76
2½	2.875		3.00
65	76.1		76
2½	3		3.00
80	88.9		86
3	3.5		3.38
100	108		101
4	4.25		3.98
100	114.3		101
4	4.5		3.98
125	133		121
5	5.25		4.76
125	139.7		121
5	5.5		4.76
125	141.3		121
5	5.563		4.76
150	159	140	
6	6.25	5.51	
150	165.1	140	
6	6.5	5.51	
150	168.3	140	
6	6.625	5.51	
200	219.1	175	
8	8.625	6.88	
250	273	188.5	
10	10.75	7.42	
300	323.9	222.5	
12	12.750	8.76	

Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
25	33.7	300 psi 2.07 Mpa	45
1	1.327		1.77
32	42.4		45
1¼	1.669		1.77
40	48.3		45
1½	1.9		1.77
50	60.3		51
2	2.375		2.00
65	73		57
2½	2.875		2.24
65	76.1		57
2½	3		2.24
80	88.9		64
3	3.5		2.51
100	108		76
4	4.25		3.00
100	114.3		76
4	4.5		3.00
125	133		82.5
5	5.25		3.24
125	139.7		82.5
5	5.5		3.24
125	141.3		82.5
5	5.563		3.24
150	159	89	
6	6.25	3.50	
150	165.1	89	
6	6.5	3.50	
150	168.3	89	
6	6.625	3.50	
200	219.1	108	
8	8.625	4.25	
250	273	120.5	
10	10.75	4.74	
300	323.9	133	
12	12.750	5.23	

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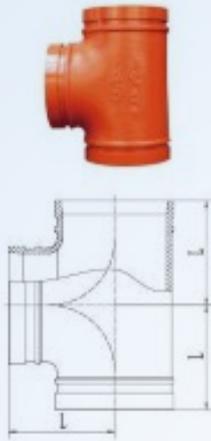
# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

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## Grooved Couplings and Fittings UL FM Approved Painted or Galv

Material : ASTM A536 G65-45-12  
Tee



Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
25 1	33.7 1.327	300 psi 2.07 Mpa	57 2.24
32 1¼	42.4 1.669		60 2.36
40 1½	48.3 1.9		60 2.36
50 2	60.3 2.375		70 2.75
65 2½	73 2.875		76 3.00
65 2½	76.1 3		76 3.00
80 3	88.9 3.5		86 3.38
100 4	108 4.25		101 3.98
100 4	114.3 4.5		101 3.98
125 5	133 5.25		121 4.76
125 5	139.7 5.5		121 4.76
125 5	141.3 5.563		121 4.76
150 6	159 6.25		140 5.51
150 6	165.1 6.5		140 5.51
150 6	168.3 6.625		140 5.51
200 8	219.1 8.625		175 6.88
250 10	273 10.75		215 8.46
300 12	323.9 12.750		245 9.64

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

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Brand Valves

### Grooved Couplings and Fittings UL FM Approved Painted or Galv

Material : ASTM A536 G65-45-12



Grooved Reducing Tee



Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L1 mm/in	Dimensions L2 mm/in
50x25 2x1	60.3x33.7 2.375x1.315	300 psi 2.07 Mpa	70 2.75	70 2.75
50x32 2x1¼	60.3x42.4 2.375x1.660		70 2.75	70 2.75
50x40 2x1½	60.3x48.3 2.375x1.900		70 2.75	70 2.75
65x32 2½x1¼	73.0x42.4 2.875x1.660		76 3.00	76 3.00
65x40 2½x1½	73.0x48.3 2.875x1.900		76 3.00	76 3.00
65x50 2½x2	73.0x60.3 2.875x2.375		76 3.00	76 3.00
65x32 2½x1¼	76.1x42.4 3.000x1.660		76 3.00	76 3.00
65x40 2½x1½	76.1x48.3 3.000x1.900		76 3.00	76 3.00
65x50 2½x2	76.1x60.3 3.000x2.375		76 3.00	76 3.00
80x40 3x1½	88.9x48.3 3.500x1.900		86 3.38	86 3.38
80x50 3x2	88.9x60.3 3.500x2.375		86 3.38	86 3.38
80x65 3x2½	88.9x76.1 3.500x3.000		86 3.38	86 3.38
100x65 4x2½	108.0x76.1 4.250x3.000		101 3.98	101 3.98
100x80 4x3	108.0x88.9 4.250x3.500		101 3.98	101 3.98
100x50 4x2	114.3x60.3 4.500x2.375		101 3.98	101 3.98
100x65 4x2½	114.3x76.1 4.500x3.000		101 3.98	101 3.98
100x80 4x3	114.3x88.9 4.500x3.500		101 3.98	101 3.98
125x50 5x2	133.0x60.3 5.250x2.375		121 4.76	121 4.76
125x65 5x2½	133.0x76.1 5.250x3.000		121 4.76	121 4.76
125x100 5x4	133.0x108.0 5.250x4.250		121 4.76	121 4.76
125x100 5x4	133.0x114.3 5.250x4.500		121 4.76	121 4.76
125x50 5x2	139.7x60.3 5.500x2.375		121 4.76	121 4.76
125x65 5x2½	139.7x76.1 5.500x3.000		121 4.76	121 4.76
125x80 5x3	139.7x88.9 5.500x3.500		121 4.76	121 4.76
125x100 5x4	139.7x114.3 5.500x4.500	121 4.76	121 4.76	
125x50 5x2	141.3x60.3 5.563x2.375	121 4.76	121 4.76	
125x65 5x2½	141.3x73.0 5.563x2.875	121 4.76	121 4.76	

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

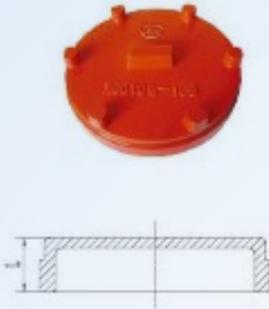
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## Grooved Couplings and Fittings UL FM Approved Painted or Galv

Material : ASTM A536 G65-45-12

Cap



Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
25 1	33.7 1.327	300 psi 2.07 Mpa	25 0.98
32 1¼	42.4 1.669		25 0.98
40 1½	48.3 1.9		25 0.98
50 2	60.3 2.376		25 0.98
65 2½	73 2.875		25 0.98
65 2½	76.1 3		25 0.98
80 3	88.9 3.5		26 10.2
100 4	108 4.25		26 10.2
100 4	114.3 4.5		26 10.2
125 5	133 5.25		26 10.2
125 5	139.7 5.5		26 10.2
125 5	141.3 5.563		26 10.2
150 6	159 6.25		26 10.2
150 6	165.1 6.5		26 10.2
150 6	168.3 6.625		26 10.2
200 8	219.1 8.625		30 1.18
250 10	273 10.75		32 1.25
300 12	323.9 12.750		32 1.25

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

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### Grooved Couplings and Fittings UL FM Approved Painted or Galv

Material : ASTM A536 G65-45-12

Grooved Concentric Reducer



Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
32x25	42.4x33.7	300 psi 2.07 Mpa	64
1½x1	1.660x1.315		2.51
40x25	48.3x33.7		64
1½x1	1.900x1.315		2.51
40x32	48.3x42.4		64
1½x1¼	1.900x1.660		2.51
50x25	60.3x33.7		64
2x1	2.375x1.315		2.51
50x32	60.3x42.4		64
2x1¼	2.375x1.660		2.51
50x40	60.3x48.3		64
2x1½	2.375x1.900		2.51
65x25	73.0x33.7		64
2½x1	2.875x1.315		2.51
65x32	73.0x42.4		64
2½x1¼	2.875x1.660		2.51
65x40	73.0x48.3		64
2½x1½	2.875x1.900		2.51
65x50	73.0x60.3		64
2½x2	2.875x2.375		2.51
65x32	76.1x42.4		64
2½x1¼	3.000x1.660		2.51
65x40	76.1x48.3		64
2½x1½	3.000x1.900		2.51
65x50	76.1x60.3		64
2½x2	3.000x2.375		2.51
80x32	88.9x42.4		64
3x1¼	3.500x1.660		2.51
80x40	88.9x48.3		64
3x1½	3.500x1.900		2.51
80x50	88.9x60.3		64
3x2	3.500x2.375		2.51
80x65	88.9x76.1	64	
3x2½	3.500x3.000	2.51	
100x65	108.0x76.1	76	
4x2½	4.250x3.000	2.99	
100x80	108.0x88.9	76	
4x3	4.250x3.500	2.99	
100x32	114.3x42.4	76	
4x1¼	4.500x1.660	2.99	

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# Flanges and Flange Charts Gaskets

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### BMC Brand Flange Chart 1

NOM BORE	PIPE OD	-18° TO 230°C						-18° TO 230°C						-10° TO 200°C						TO CONVERT PSI TO kPa x 6,89						NOM BORE																		
		OD	P C D	FL / TK	NO HOLES	HOLE DIA	BOLT SIZE	OD	P C D	FL / TK	NO HOLES	HOLE DIA	BOLT SIZE	OD	P C D	FL / TK	NO HOLES	HOLE DIA	BOLT SIZE	OD	P C D	FL / TK	NO HOLES	HOLE DIA	BOLT SIZE																			
15	21,3	95	67	4,76	4	14,3	12 <sub>30</sub>	95	67	6,35	4	14,3	12 <sub>40</sub>	95	67	9,53	4	14,3	12 <sub>50</sub>	114	83	12,7	4	17,5	16 <sub>55</sub>	80	55	12	4	11	10 <sub>45</sub>	95	65	14	4	14	12 <sub>50</sub>	95	65	14	4	14	12 <sub>50</sub>	15
20	26,9	102	73	4,76	4	14,3	12 <sub>30</sub>	102	73	6,35	4	14,3	12 <sub>40</sub>	102	73	9,53	4	14,3	12 <sub>50</sub>	114	83	12,7	4	17,5	16 <sub>55</sub>	90	65	14	4	11	10 <sub>45</sub>	105	75	16	4	14	12 <sub>55</sub>	105	75	16	4	14	12 <sub>55</sub>	20
25	33,7	114	83	4,76	4	14,3	12 <sub>30</sub>	114	83	7,14	4	14,3	12 <sub>40</sub>	121	87	9,53	4	17,5	16 <sub>50</sub>	121	87	14,3	4	17,5	16 <sub>55</sub>	100	75	14	4	11	10 <sub>50</sub>	115	85	16	4	14	12 <sub>55</sub>	115	85	16	4	14	12 <sub>55</sub>	25
32	42,4	121	87	6,35	4	14,3	12 <sub>40</sub>	121	87	7,94	4	14,3	12 <sub>40</sub>	133	98	12,7	4	17,5	16 <sub>55</sub>	133	96	17,5	4	17,5	16 <sub>65</sub>	120	90	16	4	14	12 <sub>65</sub>	140	100	16	4	18	16 <sub>65</sub>	140	100	16	4	18	16 <sub>65</sub>	32
40	48,3	133	98	6,35	4	14,3	12 <sub>40</sub>	133	98	8,73	4	14,3	12 <sub>40</sub>	140	105	12,7	4	17,5	16 <sub>55</sub>	140	105	17,5	4	17,5	16 <sub>65</sub>	130	100	16	4	14	12 <sub>65</sub>	150	110	16	4	18	16 <sub>65</sub>	150	110	16	4	18	16 <sub>65</sub>	40
50	60,3	152	114	7,94	4	17,5	16 <sub>50</sub>	152	114	9,53	4	17,5	16 <sub>50</sub>	165	127	15,9	4	17,5	16 <sub>65</sub>	165	127	19	4	17,5	16 <sub>65</sub>	140	110	16	4	14	12 <sub>65</sub>	165	125	18	4	18	16 <sub>65</sub>	165	125	18	4	18	16 <sub>65</sub>	50
65	76,1	165	127	7,94	4	17,5	16 <sub>50</sub>	165	127	10,32	4	17,5	16 <sub>50</sub>	184	146	15,9	8	17,5	16 <sub>65</sub>	184	146	19	8	17,5	16 <sub>65</sub>	160	130	16	4	14	12 <sub>65</sub>	185	145	18	4	18	16 <sub>65</sub>	185	145	18	4	18	16 <sub>65</sub>	65
80	88,9	184	146	9,53	4	17,5	16 <sub>50</sub>	184	146	11,1	4	17,5	16 <sub>50</sub>	203	165	15,9	8	17,5	16 <sub>65</sub>	203	165	22,2	8	17,5	16 <sub>75</sub>	190	150	18	4	18	16 <sub>65</sub>	200	160	20	8	18	16 <sub>75</sub>	200	160	20	8	18	16 <sub>75</sub>	80
100	114,3	216	178	9,53	4	17,5	16 <sub>50</sub>	216	178	12,7	8	17,5	16 <sub>50</sub>	229	191	19	8	17,5	16 <sub>65</sub>	229	191	25,4	8	17,5	16 <sub>75</sub>	210	170	18	4	18	16 <sub>65</sub>	220	180	20	8	18	16 <sub>75</sub>	220	180	20	8	18	16 <sub>75</sub>	100
125	139,7	254	210	12,7	8	17,5	16 <sub>55</sub>	254	210	14,3	8	17,5	16 <sub>55</sub>	279	235	22,2	8	22,5	20 <sub>75</sub>	279	235	28,6	8	22,2	20 <sub>90</sub>	240	200	20	8	18	16 <sub>75</sub>	250	210	22	8	18	16 <sub>75</sub>	250	210	22	8	18	16 <sub>75</sub>	125
150	165,1	279	235	12,7	8	17,5	16 <sub>55</sub>	279	235	17,5	8	22,2	20 <sub>65</sub>	305	260	22,2	12	22,5	20 <sub>75</sub>	305	260	28,6	12	22,2	20 <sub>90</sub>	265	225	20	8	18	16 <sub>75</sub>	285	240	22	8	22	20 <sub>75</sub>	285	240	22	8	22	20 <sub>75</sub>	150
200	219,1	337	292	12,7	8	17,5	16 <sub>55</sub>	337	292	19	8	22,2	20 <sub>75</sub>	368	324	25,4	12	22,5	20 <sub>90</sub>	368	324	31,8	12	22,2	20 <sub>100</sub>	320	280	22	8	18	16 <sub>75</sub>	340	295	24	8	22	20 <sub>75</sub>	340	295	24	12	22	20 <sub>75</sub>	200
250	273	406	356	15,9	8	22,2	20 <sub>65</sub>	406	356	22,2	12	22,2	20 <sub>75</sub>	432	381	28,6	12	25,4	20 <sub>90</sub>	432	381	34,9	12	25,4	20 <sub>100</sub>	375	335	24	12	18	16 <sub>75</sub>	395	350	26	12	22	20 <sub>90</sub>	405	355	26	12	26	24 <sub>90</sub>	250
300	323,9	457	406	19	12	22,2	20 <sub>65</sub>	457	406	25,4	12	25,4	20 <sub>90</sub>	489	438	31,8	16	25,4	20 <sub>100</sub>	489	438	41,3	16	25,4	20 <sub>115</sub>	440	395	24	12	22	20 <sub>90</sub>	445	400	26	12	22	20 <sub>90</sub>	460	410	28	12	26	24 <sub>90</sub>	300
350	355,6	527	470	22,2	12	25,4	20 <sub>75</sub>	527	470	28,6	12	25,4	20 <sub>90</sub>	553	495	34,9	16	28,6	24 <sub>115</sub>	553	495	47,6	16	28,6	24 <sub>140</sub>	490	445	26	12	22	20 <sub>90</sub>	505	460	28	16	22	20 <sub>90</sub>	520	470	32	16	26	24 <sub>100</sub>	350
400	406,4	578	521	22,2	12	25,4	20 <sub>75</sub>	578	521	31,75	12	25,4	20 <sub>100</sub>	610	553	41,3	20	28,6	24 <sub>140</sub>	610	553	54	20	28,6	24 <sub>150</sub>	540	495	28	16	22	20 <sub>90</sub>	565	515	32	16	26	24 <sub>100</sub>	580	525	36	16	30	27 <sub>115</sub>	400
450	457,2	641	584	25,4	12	25,4	20 <sub>75</sub>	641	584	34,9	16	25,4	20 <sub>100</sub>	673	610	44,5	20	31,8	27 <sub>140</sub>	673	610	60,3	20	31,8	27 <sub>165</sub>	595	550	30	16	22	20 <sub>90</sub>	615	565	36	20	26	24 <sub>115</sub>	640	585	40	20	30	27 <sub>115</sub>	450
500	508	705	641	28,6	16	25,4	20 <sub>90</sub>	705	641	38,1	18	25,4	20 <sub>115</sub>	737	673	50,8	24	31,8	27 <sub>140</sub>	737	673	66,7	24	31,8	27 <sub>180</sub>	645	600	30	20	22	20 <sub>90</sub>	670	620	38	20	26	24 <sub>115</sub>	715	650	44	20	33	30 <sub>140</sub>	500

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## BMC Brand Flange Chart 2

ANSI B16,5 OR BS 1560													
PRESSURE		STEAM		1035				2070					
RATING/KPA		WATER		1900				4965					
ASA 150							ASA 300						
NOM BORE	PIPE OD	OD	PCD	FL TK	NO HOLE	HOLE DIA	BOLT SIZE	OD	PCD	FL TK	NO HOLE	HOLE DIA	BOLT SIZE
15	21,3	89	60	11,1	4	15,9	12/45	95	67	14,3	4	15,9	12/55
20	26,9	98	70	12,7	4	15,9	12/50	118	83	15,9	4	19	16/65
25	33,4	108	79	14,3	4	15,9	12/55	124	89	17,5	4	19	16/65
32	42,2	118	89	15,9	4	15,9	12/55	133	98	19,0	4	19	16/65
40	48,3	127	98	17,5	4	15,9	12/65	156	114	20,6	4	22,2	16/75
50	60,3	152	121	19,0	4	19	16/65	165	127	22,2	8	19	16/75
65	73,0	178	140	22,2	4	19	16/75	191	149	25,4	8	22,2	20/90
80	88,9	191	152	23,8	4	19	16/75	210	168	28,6	8	22,2	20/90
100	114,3	229	191	23,8	8	19	16/75	254	200	31,7	8	22,2	20/100
125	141,3	254	216	23,8	8	22,2	20/90	279	235	34,9	8	22,2	20/100
150	168,3	279	241	25,4	8	22,2	20/90	318	270	36,5	12	22,2	20/115
200	219,1	343	298	28,6	8	22,2	20/90	381	330	41,3	12	25,4	24/125
250	273,0	406	362	30,2	12	25,4	24/100	445	387	47,6	16	28,6	24/140
300	323,9	483	432	31,7	12	25,4	24/100	521	451	50,8	16	31,7	30/150
350	355,6	533	476	34,9	12	28,6	24/115	584	514	54,0	20	31,7	30/150
400	406,4	597	540	36,5	16	28,6	24/115	648	572	57,1	20	34,9	30/165
450	457,2	635	578	39,7	16	31,7	30/125	711	629	60,3	24	34,9	30/165
500	508,0	699	635	42,9	20	31,7	30/125	775	686	63,5	24	34,9	30/180

TO CONVERT m/m TO INCH : 25,4														
1000							1600							
SANS 1123/1000							SANS 1123/1600							
PIPE OD	OD	PCD	FL TK	NO HOLE	HOLE DIA	BOLT SIZE	OD	PCD	FL TK	NO HOLE	HOLE DIA	BOLT SIZE	NOM BORE	
21,3	95	65	10	4	14	12/45	95	65	10	4	14	12/45	15	
26,9	105	75	10	4	14	12/45	105	75	10	4	14	12/45	20	
33,7	115	85	10	4	14	12/45	115	85	10	4	14	12/45	25	
42,4	140	100	10	4	18	16/50	140	100	10	4	18	16/50	32	
48,3	150	110	10	4	18	16/50	150	110	10	4	18	16/50	40	
60,3	165	125	10	4	18	16/50	165	125	12	4	18	16/50	50	
76,1	185	145	12	4	18	16/50	185	145	12	4	18	16/50	65	
88,9	200	160	12	8	18	16/50	200	160	14	8	18	16/55	80	
114,3	220	180	12	8	18	16/50	220	180	14	8	18	16/55	100	
139,7	250	210	14	8	18	16/50	250	210	16	8	18	16/65	125	
165,1	285	240	16	8	22	20/75	285	240	18	8	22	20/75	150	
219,1	340	295	18	8	22	20/75	340	295	22	12	22	20/75	200	
273,0	395	350	20	12	22	20/75	405	355	25	12	26	24/90	250	
323,9	445	400	22	12	22	20/75	460	410	28	12	26	24/90	300	
355,6	505	460	25	16	22	20/90	520	470	30	16	26	24/100	350	
406,4	565	515	25	16	26	20/90	580	525	35	16	26	24/115	400	
457,2	615	565	30	20	26	24/100	640	585	40	20	26	24/125	450	
508,0	670	620	32	20	26	24/100	715	650	40	20	33	30/125	500	

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## BMC Brand Flange Chart 3

HDPE PIPE OD SIZE	BS 10 TABLE D						BOLT SIZES			
	OD	ID	THK	PCD	BOLT HOLE DIA	NO OF HOLES	App Weight	Bolt Dia	PLASTIC-PLASTIC	PLASTIC TO STEEL
90	184	103	10	146	17.5	4	1.45	M16	80	60
110	216	136	10	178	17.5	4	1.77	M16	100	70
125	216	136	10	178	17.5	4	1.77	M16	110	75
140	254	158	13	210	17.5	8	3.09	M16	120	80
160	280	190	13	235	17.5	8	3.3	M16	120	90
180	280	190	13	235	17.5	8	3.3	M16	130	90
200	337	237	13	292	17.5	8	4.57	M16	130	90
225	337	237	13	292	17.5	8	4.57	M16	140	100
250	406	279	16	356	22.2	8	8.75	M20	150	110
280	406	292	16	356	22.2	8	8.75	M20	150	110
315	457	330	19	406	22.2	12	11.81	M20	180	130
355	527	376	22	470	25.4	12	18.78	M24	190	130
400	578	430	22	521	25.4	12	20.62	M24	210	140
450	641	476	25	584	25.4	12	29.58	M24	220	150
500	704	533	29	641	25.4	16	37.83	M24	240	160

HDPE PIPE OD SIZE	SANS1123/1000/3						BOLT SIZES			
	OD	ID	THK	PCD	BOLT HOLE DIA	NO OF HOLES	App Weight	Bolt Dia	PLASTIC-PLASTIC	PLASTIC TO STEEL
90	200	103	12	160	18	8	2.12	M16	90	65
110	220	136	12	180	18	8	2.16	M16	100	70
125	220	136	12	180	18	8	2.16	M16	120	80
140	250	158	14	210	18	8	3.22	M16	120	90
160	285	190	16	240	22	8	4.35	M20	130	90
180	285	190	16	240	22	8	4.35	M20	140	100
200	340	237	18	295	22	8	6.59	M20	140	100
225	340	237	18	295	22	8	6.59	M20	150	110
250	395	279	20	350	22	12	8.59	M20	160	120
280	395	292	22	350	22	12	8.56	M20	160	120
315	445	330	22	400	22	12	12.08	M20	190	130
355	505	376	25	460	22	16	17.45	M20	190	140
400	565	430	25	515	26	16	20.35	M24	210	150
450	615	476	30	565	26	20	27.31	M24	240	160
500	670	533	30	620	26	20	29.92	M24	240	160

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### BMC Brand Flange And Other Info Chart 4

#### BOLT SIZES FOR BUTTERFLY & D/DOOR WAFER CHECK VALVES

(BOLT & NUT ONLY - BOLT PROTRUDING +/- 5-15MM BEYOND NUT)

PN 10/16 BUTTERFLY VALVE			
NOM.BORE	TABLE D	T/1000	T/1600
50	M16X90	M16X90	M16X90
65	M16X90	M16X90	M16X90
80	M16X90	M16X100	M16X100
100	M16X100	M16X100	M16X100
125	M16X115	M16X115	M16X115
150	M16X115	M20X125	M20X125
200	M16X115	M20X125	M20X130
250	M20X125	M20X140	M24X150
300	M20X140	M20X150	M24X165
350	M20X150	M20X155	M24X180
400	M20X165	M24X180	M24X200
450	M20X200	M24X200	M24X230
500	M20X230	M24X230	M30X255

PN 10/16 DOUBLE - DOOR WAFER CHECK			
NOM.BORE	TABLE D	T/1000	T/1600
50	M16X90	M16X90	M16X90
65	M16X90	M16X100	M16X100
80	M16X115	M16X115	M16X115
100	M16X115	M16X115	M16X115
125	M16X125	M16X130	M16X130
150	M16X125	M20X140	M20X140
200	M16X140	M20X165	M20X165
250	M20X180	M20X180	M24X200
300	M20X180	M20X200	M24X220
350	M20X200	M20X220	M24X230
400	M20X220	M24X230	M24X255
450	M20X230	M24X255	M24X280
500	M20X240	M24X255	M30X280

#### PRESSURE CONVERSIONS

kPa	MPa	BAR	P.S.I.	METERS HEAD
50		,5	7,25	5,10
100		1,0	14,5	10,20
150		1,5	22	15,30
200		2	30	20,39
250		2,5	36	25,49
300		3	44	30,59
350		3,5	51	35,69
400		4	58	40,79
450		4,5	66	45,89
500		5	73	50,99
550		5,5	80	56,08
600		6	87	61,18
650		6,5	94	66,28
700		7	102	71,38
750		7,5	109	76,48
800		8	116	81,58
850		8,5	123	86,68
900		9	130	91,77
950		9,5	138	96,87
1000	1,0	10	145	101,97
1100	1,1	11	160	122,17
1200	1,2	12	174	122,36
1300	1,3	13	188	132,56
1400	1,4	14	203	142,76
1500	1,5	15	218	152,96
1600	1,6	16	232	163,15
1700	1,7	17	247	234,53
1800	1,8	18	261	183,55
1900	1,9	19	276	193,74
2000	2,0	20	290	203,94
2500	2,5	25	363	254,93
3000	3,0	30	435	305,91
3500	3,5	35	508	356,90
4000	4,0	40	580	407,89
4500	4,5	45	653	458,87
5000	5,0	50	725	509,86
5500	5,5	55	797	560,84
6000	6,0	60	870	611,83
	7,0	70	1015	713,80
	8,0	80	1160	815,77
	9,0	90	1305	917,74
	10,0	100	1450	1019,72
	11,0	110	1595	
	12,0	120	1740	
	13,0	130	1885	
	14,0	140	2030	
	15,0	150	2175	
	16,0	160	2320	
	17,0	170	2465	
	18,0	180	2610	
	19,0	190	2755	
	20,0	200	2900	

#### THERMODYNAMIC PROPERTIES OF SATURATED STEAM

kPa	P.S.I.	F°	C°
1,4	0,2	53	12
3,5	0,5	80	27
6,9	1	102	40
9,7	1,4	113	44
13,8	2	126	52
16,5	2,4	133	56
20,7	3	141	60
34,5	5	162	73
69	10	193	90
103	15	213	100
172	25	240	116
207	30	250	121
275	40	267	130
345	50	281	138
414	60	293	145
483	70	303	150
552	80	312	155
620	90	320	160
690	100	328	165
827	120	341	171
965	140	353	178
1103	160	364	184
1240	180	373	190
1380	200	382	195
1725	250	401	204
2070	300	417	214
2415	350	432	222
2760	400	445	229
3105	450	456	235
4000	580	482	250
5000	725	506	264

All Specifications are subject to change without notice



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**BMC**  
VALVE

*Break Away*  
*Brand Valves*

## Gaskets



We stock and Manufacture gaskets  
in house in various material  
as required.

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# Bronze Valves

<b>Page</b>	<b>Product</b>	<b>FIG #</b>
<b>98</b>	<b>Globe Valve Scr BSP Bronze, PTFE Trim</b>	<b>1220e</b>
<b>99</b>	<b>Globe Valve Scr BSP Bronze, SS Trim</b>	<b>1113g</b>
<b>100-101</b>	<b>Relief Valves Bronze, PTFE Trim</b>	<b>2351b</b>
<b>102-103</b>	<b>Safety Valves Bronze, PTFE Trim</b>	<b>2361b</b>
<b>104</b>	<b>Check Valves Bronze Ptfе Trim</b>	<b>1130</b>
<b>105</b>	<b>Check Valves Bronze Ss Trim</b>	<b>1131</b>
<b>106</b>	<b>Sight Glasses Bronze - Ball Type</b>	<b>1368</b>
<b>107</b>	<b>Sight Glasses Bronze - Spinner Type</b>	<b>2316b</b>
<b>108</b>	<b>Tank Level Indicator in Bronze</b>	<b>3733</b>
<b>109</b>	<b>Strainers, Y Type in Bronze</b>	<b>2380g</b>
<b>110</b>	<b>Boiler Blow Down Valves</b>	<b>2880fi</b>
<b>111</b>	<b>Boiler Gauge Glass Columns</b>	<b>2337</b>

# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

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Brand Valves

### FIG 1220E

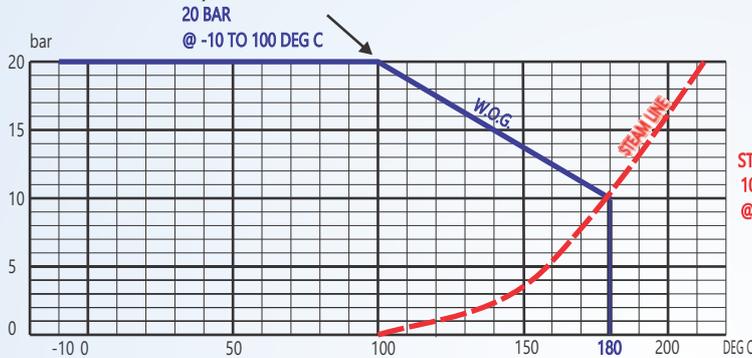
### BREAKAWAY BRONZE GLOBE VALVE - PTFE TRIM 10 BAR STEAM

#### FEATURES

CONFORMS TO BS 5154  
 RISING SPINDLE  
 REPLACEABLE AND REVERSIBLE PTFE SEAT  
 BACK SEAT FOR REPACKING UNDER PRESSURE  
 UNION BONNET  
 BS 21 TAPER THREADS  
 DEEP STUFFING BOX  
 PTFE PREFORMED GLAND PACKING  
 SPARES AVAILABLE

MAX WORKING PRESSURE NON SHOCK		HYDROSTATIC TEST PRESSURE	
MAX STEAM	10 BAR @ 180 DEG C	SHELL	SEAT
MAX W.O.G.	20 BAR @ -10 TO 100 DEG C	37 BAR	25 BAR
	10 BAR @ 180 DEG C		

#### PRESSURE/TEMPERATURE RATINGS

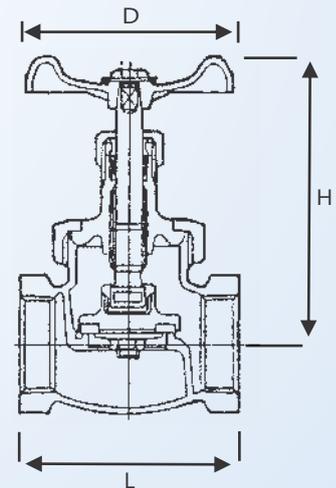


STEAM LINE  
10 BAR  
@ 180 DEG C



ITEM	SPECIFICATION
HANDWHEEL	CAST IRON
WHEEL NUT	BR-BS2872
NAME PLATE	AL-BS1470
STEM	BR-BS2874
GLAND NUT	BR-BS2872
GLAND RING	BR-BS2874
PACKING	PTFE
BONNET	BZ-BS1400LG2C
UNION	BR-BS2872
BODY	BZ-BS1400LG2C
SEAT	BZ-BS1400LG2C
CLACK HOLDER	BR-BS2874
CLACK NUT	BR-BS2872
CLACK SEAT	PTFE

SIZE BSP	L	H	D	MASS KG
8				
10				
15	55	100	58	0.4
20	66	113	68	0.75
25	75	134	71	1.15
32	87	155	81	1.5
40	100	172	96	2.4
50	120	201	104	3.1



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## VALVE & ENGINEERING MERCHANT COMPANY

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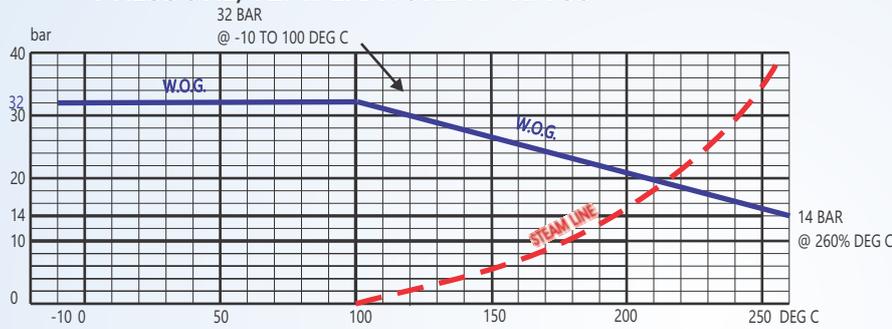
### FIG 1113G BREAKAWAY BRONZE GLOBE VALVE - S/S TRIM 14 BAR STEAM

#### FEATURES

CONFORMS TO BS 5154  
 RISING SPINDLE, HEAVY DUTY ACME THREAD  
 REPLACEABLE STAINLESS STEEL SEAT AND CLACK  
 BACK SEAT FOR REPACKING UNDER PRESSURE  
 INTERNAL BONNET  
 PTFE PREFORMED GLAND PACKING  
 DEEP STUFFING BOX  
 BS 21 TAPER THREADS  
 SPARES AVAILABLE  
 MANUFACTURED IN SOUTH AFRICA

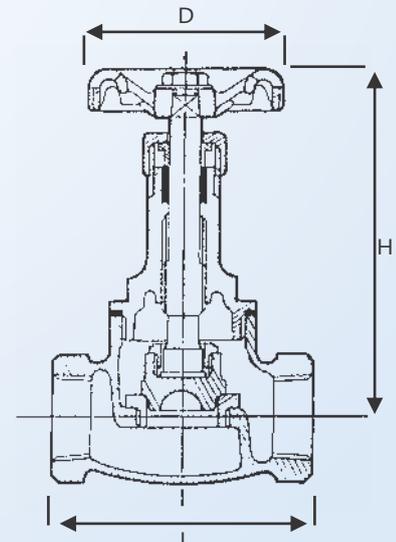
MAX WORKING PRESSURE NON SHOCK		HYDROSTATIC TEST PRESSURE	
MAX STEAM	14 BAR @198 DEG C	SHELL	SEAT
MAX W.O.G.	32 BAR @ -10 TO 100 DEG C	48 BAR	35 BAR
	4 BAR @ 260 DEG C		

#### PRESSURE/TEMPERATURE RATINGS



ITEM	SPECIFICATION
HANDWHEEL	CAST IRON
WHEEL NUT	BR-BS2872
NAME PLATE	AL-BS1470
STEM	BR-BS2874
GLAND NUT	BR-BS2872
GLAND RING	BR-BS2874
PACKING	PTFE
BONNET	BR-BS2872
BODY	BZ-BS1400LG2C
SEAT	SS-GR304
CLACK	SS-EN57
CLACK NUT	BR-BS2872

SIZE RSP	L	H	D	MASS KG
8				
10				
15	70	130	62	0.65
20	81	145	72	0.95
25	93	170	88	1.8
32	111	200	116	2.2
40	122	225	116	3.9
50	152	245	116	4.6



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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
VALVE

*Break Away*  
Brand Valves

FIG 2351B

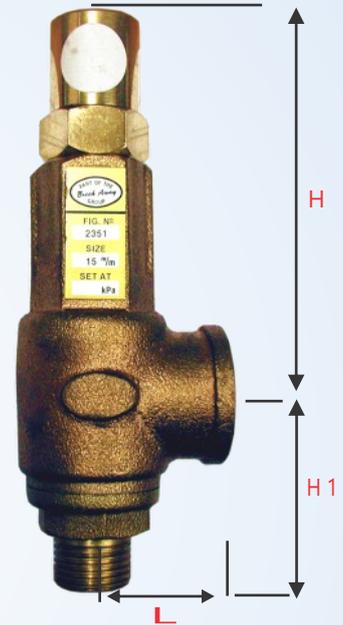
BREAKAWAY RELIEF VALVE - HIGH CAPACITY

### FEATURES

HIGH CAPACITY SIDE DISCHARGE VALVE  
REPLACEABLE PTFE SEAT  
ADJUSTABLE SETTING  
ENCLOSED CAP (BY-PASS APPLICATION ON REQUEST)  
B.S.P. THREADS TO BS 21 TAPER

### WORKING PRESSURE (BAR) NON SHOCK

MAX WORKING PRESSURE NON SHOCK		HYDROSTATIC TEST PRESSURE	
MAX STEAM	10 BAR @180 DEG C	SHELL	SEAT
MAX W.O.G.	20 BAR @ -10 TO 100 DEG C	42 BAR	23 BAR



ITEM	SPECIFICATION
BODY	BRZ 1400 LG 2C
SEAT	BR-BS2874
CLACK HOLDER	DZN 213 FORGED BR 15MM - 32MM
CLACK	PTFE
SPINDLE	BR-BS2874
COLLAR	BR-BS2874
ADJUSTING SCREW	BR-BS2872
LOCK NUT	BR-BS2872
CAP	BR-BS2872
NAME PLATE	AL-BS1470

SIZE BSP	L	H	H1	MASS KG
8				
10				
15	35	105	50	.73
20	35	105	50	.73
25	40	112	70	1.2
32	50	118	85	1.9
40	55	138	95	2.6
50	70	150	105	4

SPRING RANGE		
LIGHT	SILVER	50-100 KPA
MEDIUM	GOLD	100-1200 KPA
HEAVY	BLUE	1200-2000 KPA

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FIG 2351B

BREAKAWAY RELIEF VALVE - HIGH CAPACITY

## BREAKAWAY RELIEF & SAFETY VALVES

CONVERSION FACTOR FOR AIR  
BAR TO LBS PER SQ IN = X BY14.5  
CUBIC METRES/MIN TO CUBIC FOOT/MIN = X BY 35.31

CONVERSION FACTOR FOR WATER  
BAR TO LBSFOOT PER SQ IN = X BY14.5  
LITRES/MIN TO IMP GALLON/MIN = X BY 0.220

CONVERSION FACTOR FOR STEAM  
BAR TO LBF /MIN = X BY14.5  
KG/HR TO LBS/HR = X BY 2.205

**CAPACITY CHART Fig No: 2351&2361&2461**  
**(1CFM=1.698CUBIC METRES)**  
**AIR Cubic Metres/ Hour**

Kpa	15MM	20MM	25MM	32MM	40MM	50MM
35	11.34	22.97	41.18	64.15	91.08	163.94
70	15.12	28.51	50.69	79.99	115.63	205.13
100	17.80	33.83	60.07	93.80	135.15	240.26
150	22.45	42.58	75.75	118.13	170.41	302.80
175	19.80	45.94	82.37	127.51	184.54	332.64
200	22.81	51.42	91.43	142.56	205.48	366.09
300	30.41	68.90	122.70	191.41	275.81	489.27
350	32.47	74.45	133.85	209.88	300.96	537.77
400	38.97	86.58	153.96	240.17	345.57	615.86
500	46.00	104.16	185.33	289.02	417.51	739.03
525	46.73	104.54	184.54	290.66	417.38	745.27
600	53.89	121.75	216.50	337.77	485.84	865.62
700	58.61	133.06	236.81	370.66	534.60	958.32
800	69.28	156.91	279.42	434.52	626.12	1115.39
900	77.17	174.49	310.40	485.84	697.97	1241.98
1000	84.74	191.66	339.77	533.02	769.82	1374.12
1200	100.46	227.24	403.73	629.54	910.10	1614.92
1250	104.35	236.08	420.84	653.50	944.32	1679.93
1400	110.88	250.27	445.10	696.17	1004.26	1778.04
1600	131.54	297.57	530.32	824.57	1190.66	2117.87
1800	147.12	332.74	591.91	923.79	1330.94	2367.64
2000	162.61	369.52	653.50	1019.59	1471.22	2617.40

**CAPACITY CHART Fig No: 2351&2361&2461**  
**(1 GALLON=4.55 LITRES)**  
**Water Litres/Minute**

Kpa	15MM	20MM	25MM	32MM	40MM	50MM
35	3.00	8.40	14.00	19.90	31.70	58.30
70	5.40	12.65	21.90	35.80	51.20	89.50
100	5.97	13.63	23.68	36.36	53.85	94.06
150	7.31	16.69	28.99	44.53	65.95	115.66
200	8.41	18.66	33.49	53.39	74.73	131.43
300	10.30	22.86	41.00	65.38	91.48	161.47
350	11.11	25.05	44.45	69.05	99.78	174.50
400	11.93	27.25	47.89	72.72	108.08	187.70
500	13.35	30.47	53.55	81.30	120.63	210.46
600	14.62	32.32	57.99	89.05	129.74	228.13
700	15.79	36.05	62.64	95.78	142.82	249.32
800	16.88	38.54	66.96	103.29	152.47	266.39
900	17.90	40.88	71.03	108.92	161.16	282.50
1000	18.87	43.09	74.87	114.56	170.81	297.67
1200	20.59	47.20	82.96	125.83	186.25	326.11
1250	21.02	46.66	84.67	133.58	186.56	332.75
1400	22.25	49.38	89.61	141.38	197.92	348.29
1600	23.78	52.79	95.80	151.13	211.18	372.70
1800	25.23	55.99	105.19	159.90	224.44	395.23
2000	26.59	59.02	107.12	168.68	236.75	416.83

**CAPACITY CHART Fig No: 2351&2361&2461**  
**(2.2 Lbs=1Kg)**  
**STEAM KG/HR**

Kpa	15MM	20MM	25MM	32MM	40MM	50MM
50	7.22	19.20	33.30	54.60	77.00	133.00
100	9.78	26.00	45.10	73.90	104.00	180.00
200	14.91	39.30	68.10	111.00	157.00	272.00
300	19.85	52.40	90.70	148.00	209.00	363.00
400	24.89	65.70	113.00	186.00	262.00	455.00
500	29.92	79.00	136.00	224.00	316.00	547.00
600	34.96	92.30	159.00	262.00	369.00	639.00
700	39.99	105.00	182.00	299.00	422.00	732.00
800	45.03	118.00	206.00	337.00	476.00	824.00
900	49.96	132.00	228.00	374.00	528.00	914.00
1000	55.00	145.00	251.00	412.00	581.00	1006.00

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
VALVE

*Break Away*  
Brand Valves

FIG 2361B

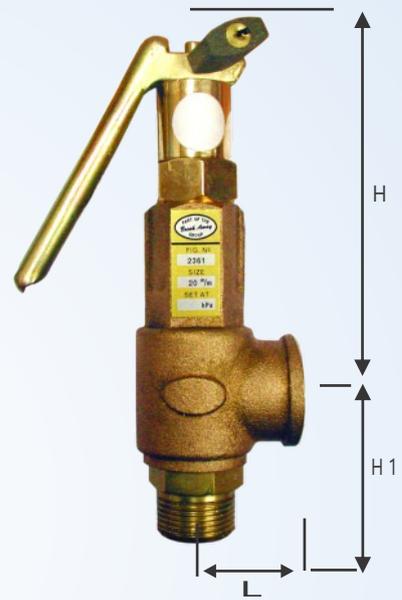
## BREAKAWAY SAFETY VALVE - HIGH CAPACITY

### FEATURES

HIGH CAPACITY SIDE DISCHARGE VALVE  
REPLACEABLE PTFE TRIM  
ADJUSTABLE SETTING  
LEVER AND LOCKING DEVICE  
B.S.P. THREADS TO BS 21 TAPER

### WORKING PRESSURE (BAR) NON SHOCK

MAX WORKING PRESSURE NON SHOCK		HYDROSTATIC TEST PRESSURE	
MAX STEAM	10 BAR @180 DEG C	SHELL	SEAT
MAX W.O.G.	21 BAR @ -10 TO 100 DEG C	42 BAR	23 BAR



ITEM	SPECIFICATION
BODY	BRZ 1400 LG 2C
SEAT	BR-BS2874
CLACK HOLDER	DZN 213 FORGED BR 15MM - 32MM
CLACK	PTFE
SPINDLE	BR-BS2874
COLLAR	BR-BS2874
ADJUSTING SCREW	BR-BS2872
LOCK NUT	BR-BS2872
CAP	BR-BS2872
NAME PLATE	AL-BS1470
SPRING	GALV SPRING STEEL
LEVER	GALV MILD STEEL
PADLOCK	MILD STEEL

SIZE BSP	L	H	H1	MASS KG
8				
10				
15	35	120	55	0.8
20	35	120	55	0.8
25	40	130	75	1.4
32	50	140	85	2
40	55	150	95	2.8
50	65	165	105	4.1

SPRING RANGE		
LIGHT	SILVER	50-100 KPA
MEDIUM	GOLD	100-1200 KPA
HEAVY	BLUE	1200-2000 KPA

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## FIG 2361B

## BREAKAWAY RELIEF VALVE - HIGH CAPACITY

### BREAKAWAY RELIEF & SAFETY VALVES

CONVERSION FACTOR FOR AIR  
BAR TO LBS PER SQ IN = X BY14.5  
CUBIC METRES/MIN TO CUBIC FOOT/MIN = X BY 35.31

CONVERSION FACTOR FOR WATER  
BAR TO LBSFOOT PER SQ IN = X BY14.5  
LITRES/MIN TO IMP GALLON/MIN = X BY 0.220

CONVERSION FACTOR FOR STEAM  
BAR TO LBF /MIN = X BY14.5  
KG/HR TO LBS/HR = X BY 2.205

**CAPACITY CHART Fig No: 2351&2361&2461**  
**(1CFM=1.698CUBIC METRES)**  
**AIR Cubic Metres/ Hour**

Kpa	15MM	20MM	25MM	32MM	40MM	50MM
35	11.34	22.97	41.18	64.15	91.08	163.94
70	15.12	28.51	50.69	79.99	115.63	205.13
100	17.80	33.83	60.07	93.80	135.15	240.26
150	22.45	42.58	75.75	118.13	170.41	302.80
175	19.80	45.94	82.37	127.51	184.54	332.64
200	22.81	51.42	91.43	142.56	205.48	366.09
300	30.41	68.90	122.70	191.41	275.81	489.27
350	32.47	74.45	133.85	209.88	300.96	537.77
400	38.97	86.58	153.96	240.17	345.57	615.86
500	46.00	104.16	185.33	289.02	417.51	739.03
525	46.73	104.54	184.54	290.66	417.38	745.27
600	53.89	121.75	216.50	337.77	485.84	865.62
700	58.61	133.06	236.81	370.66	534.60	958.32
800	69.28	156.91	279.42	434.52	626.12	1115.39
900	77.17	174.49	310.40	485.84	697.97	1241.98
1000	84.74	191.66	339.77	533.02	769.82	1374.12
1200	100.46	227.24	403.73	629.54	910.10	1614.92
1250	104.35	236.08	420.84	653.50	944.32	1679.93
1400	110.88	250.27	445.10	696.17	1004.26	1778.04
1600	131.54	297.57	530.32	824.57	1190.66	2117.87
1800	147.12	332.74	591.91	923.79	1330.94	2367.64
2000	162.61	369.52	653.50	1019.59	1471.22	2617.40

**CAPACITY CHART Fig No: 2351&2361&2461**  
**(1 GALLON=4.55 LITRES)**  
**Water Litres/Minute**

Kpa	15MM	20MM	25MM	32MM	40MM	50MM
35	3.00	8.40	14.00	19.90	31.70	58.30
70	5.40	12.65	21.90	35.80	51.20	89.50
100	5.97	13.63	23.68	36.36	53.85	94.06
150	7.31	16.69	28.99	44.53	65.95	115.66
200	8.41	18.66	33.49	53.39	74.73	131.43
300	10.30	22.86	41.00	65.38	91.48	161.47
350	11.11	25.05	44.45	69.05	99.78	174.50
400	11.93	27.25	47.89	72.72	108.08	187.70
500	13.35	30.47	53.55	81.30	120.63	210.46
600	14.62	32.32	57.99	89.05	129.74	228.13
700	15.79	36.05	62.64	95.78	142.82	249.32
800	16.88	38.54	66.96	103.29	152.47	266.39
900	17.90	40.88	71.03	108.92	161.16	282.50
1000	18.87	43.09	74.87	114.56	170.81	297.67
1200	20.59	47.20	82.96	125.83	186.25	326.11
1250	21.02	46.66	84.67	133.58	186.56	332.75
1400	22.25	49.38	89.61	141.38	197.92	348.29
1600	23.78	52.79	95.80	151.13	211.18	372.70
1800	25.23	55.99	105.19	159.90	224.44	395.23
2000	26.59	59.02	107.12	168.68	236.75	416.83

**CAPACITY CHART Fig No: 2351&2361&2461**  
**(2.2 Lbs=1Kg)**  
**STEAM KG/HR**

Kpa	15MM	20MM	25MM	32MM	40MM	50MM
50	7.22	19.20	33.30	54.60	77.00	133.00
100	9.78	26.00	45.10	73.90	104.00	180.00
200	14.91	39.30	68.10	111.00	157.00	272.00
300	19.85	52.40	90.70	148.00	209.00	363.00
400	24.89	65.70	113.00	186.00	262.00	455.00
500	29.92	79.00	136.00	224.00	316.00	547.00
600	34.96	92.30	159.00	262.00	369.00	639.00
700	39.99	105.00	182.00	299.00	422.00	732.00
800	45.03	118.00	206.00	337.00	476.00	824.00
900	49.96	132.00	228.00	374.00	528.00	914.00
1000	55.00	145.00	251.00	412.00	581.00	1006.00

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY



*Break Away*  
Brand Valves

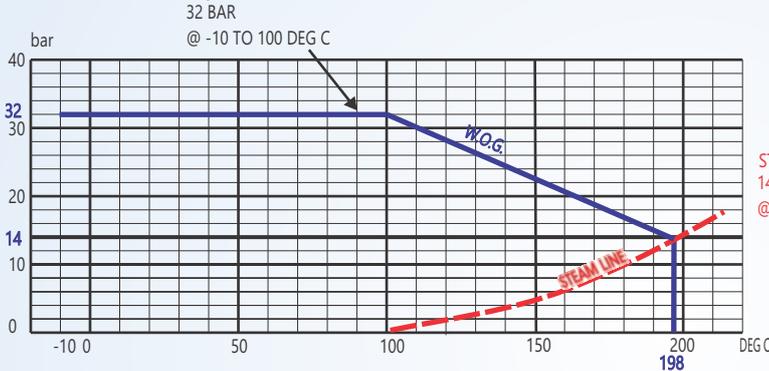
### FIG 1130 BREAKAWAY BRONZE NON RETURN VALVE - PTFE TRIM 14 BAR STEAM

#### FEATURES

CONFORMS TO BS 5154  
HORIZONTAL LIFT PATTERN  
INTERNAL BONNET  
REPLACEABLE PTFE DISC  
SPRING LOADED ON REQUEST  
BS 21 TAPER THREADS  
SPARES AVAILABLE  
MANUFACTURED IN SOUTH AFRICA

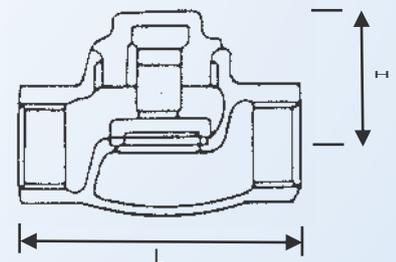
MAX WORKING PRESSURE NON SHOCK		HYDROSTATIC TEST PRESSURE	
MAX STEAM	14 BAR @198 DEG C	SHELL	SEAT
MAX W.O.G.	32 BAR @ -10 TO 100 DEG C	37 BAR	25 BAR
	14 BAR @198 DEG C		

#### PRESSURE/TEMPERATURE RATINGS



ITEM	SPECIFICATION
BODY	BZ-BS1400LG2C
CAP	BR-BS2872
CLACK HOLDER	BR-BS2874
CLACK NUT	BR BS2874
CLACK SEAT	PTFE
NAME PLATE	AL-BS1470

SIZE BSP	L	H	MASS KG
8			
10			
15	70	45	0.45
20	81	50	0.60
25	93	55	1.3
32	111	65	2.0
40	122	70	3.0
50	152	85	3.55



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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY



*Break Away*  
Brand Valves

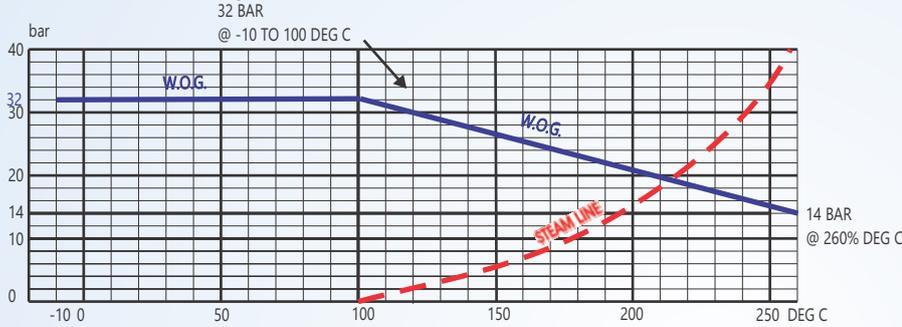
**FIG 1131 BREAKAWAY BRONZE NON RETURN VALVE - S/S TRIM 14 BAR STEAM**

### FEATURES

CONFORMS TO BS 5154  
HORIZONTAL LIFT PATTERN  
INTERNAL BONNET  
REPLACEABLE S/S TRIM  
SPRING LOADED ON REQUEST  
BS 21 TAPER THREADS  
SPARES AVAILABLE  
MANUFACTURED IN SOUTH AFRICA

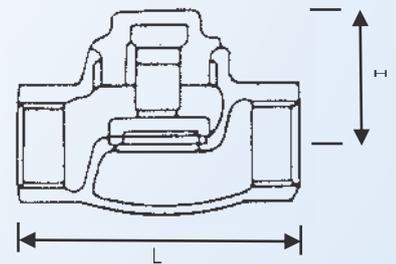
MAX WORKING PRESSURE NON SHOCK		HYDROSTATIC TEST PRESSURE	
MAX STEAM	14 BAR @ 198 DEG C	SHELL	SEAT
MAX W.O.G.	32 BAR @ -10 TO 100 DEG C	48 BAR	35 BAR
	14 BAR @ 260 DEG C		

### PRESSURE/TEMPERATURE RATINGS



ITEM	SPECIFICATION
BODY	BZ-BS1400LG2C
CAP	BR-BS2872
CLACK	S/S EN 57
SEAT	S/S GR304
NAME PLATE	AL-BS1470

SIZE BSP	L	H	MASS KG
8			
10			
15	70	45	0.45
20	81	50	0.60
25	93	55	1.3
32	111	65	2.0
40	122	70	3.0
50	152	85	3.55



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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
VALVE

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*Brand Valves*

### FIG 1368 BRONZE SIGHT GLASS WITH TEFLON BALL

#### FEATURES

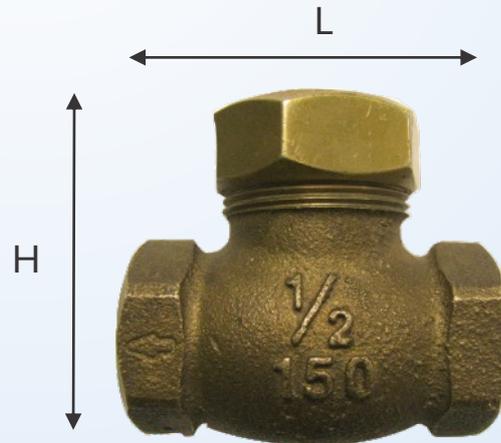
BS 21 TAPER THREADS  
SPARES AVAILABLE  
TEFLON SPINNER BALL

MAX WORKING PRESSURE NON SHOCK		HYDROSTATIC TEST PRESSURE
MAX STEAM	700 KPA @ 165 DEG C	SHELL
MAX W.O.G.	1400 KPA 0-100 DEG C	2000 Kpa



ITEM	SPECIFICATION
BODY	BRZ Bs1400 LG2C
GASKET	NON ASBESTOS ECONO
GLASS	TOUGHENED SAFETY GLASS AS PER SANS 1193
GLASS HOLDER	BR-BS2874
SPINNER	PTFE

SIZE BSP	L	H	MASS KG
15	57	53	.24
20	69	60	.38
25	97	84	1



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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

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## FIG 2316B BRONZE SIGHT GLASS CW SPINNER WHEEL

### FEATURES

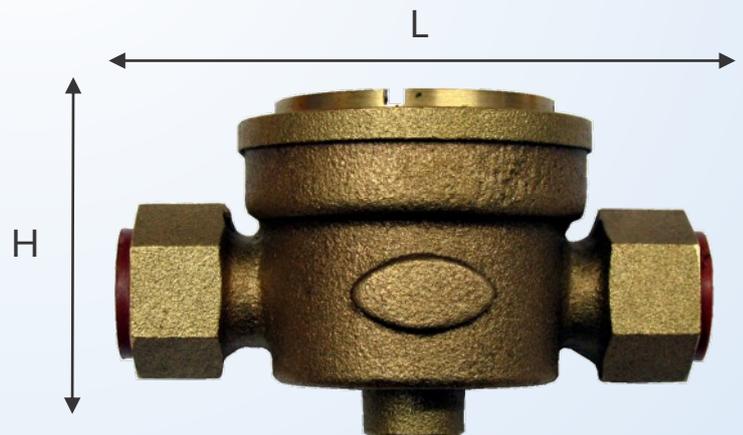
BS 21 TAPER THREADS  
SPARES AVAILABLE  
SPINNER TO DETECT FLOW  
BRONZE SPINNING INDICATOR FLOW WHEEL

MAX WORKING PRESSURE NON SHOCK		HYDROSTATIC TEST PRESSURE	
MAX STEAM	700 KPA @ 165 DEG C	SHELL	SEAT
MAX W.O.G.	1400 KPA 0-100 DEG C	1200	



ITEM	SPECIFICATION
BODY	BRZ Bs1400 LG2C
GASKET	C.A.F.
GLASS	PYREX
GLASS HOLDER	BRZ Bs1400 LG2C
SPINNER	BRZ Bs1400 LG2C

Size BSP	L	H	Mass (Kg)
15	114	62	0.6
20	114	62	0.62
25	140	75	1.29
32	155	90	1.75
40	165	100	2.4
50	180	115	3



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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

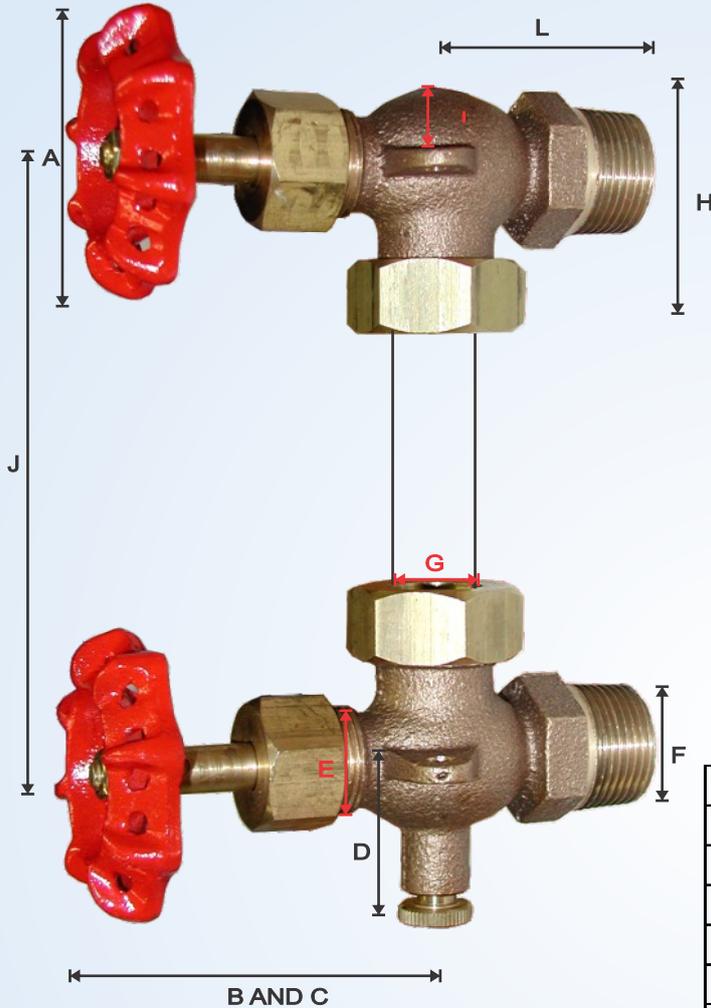
## VALVE & ENGINEERING MERCHANT COMPANY

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FIG 3733/317

### BRONZE TANK LEVEL INDICATORS



\*The Available Thread: BS21 or ANSI B2.1

\*Working Pressure: 100 psi

Test Pressure:

Body 230 psi. (Water)
Seat 100 psi. (Water)

Material:

Model:	BG-WGV
Body:	Bronze BC 6
Stem:	Brass BsBM
Disc:	Bronze BC 6
Gland:	Brass BsBM
Gland Packing:	PTFE
Packing Nut:	Brass BsbM
Water Relief Valve:	BsBM
Nut:	Brass BsBm
Gauge Packing:	NEOPRENE
Handle:	Cast Iron

Size mm	15 NB x 13.5mm Glass	20 NB x 20mm Glass
	Dims mm	Dims mm
A	55	58
B	55	70 - Closed
C	59	82 - Open
D	17	21
E	16	21.6
F	21	26
G	13.5	20
H	35 - No Glass Inserted	35 - No Glass Inserted
I	32	36
J	As Per Clients requirement	As Per Clients requirement
K	22.2	28.2
L	39	45
Weight Kg (Set)	0.6	0.812

Glass tubing Available on Request

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

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### FIG 2380G

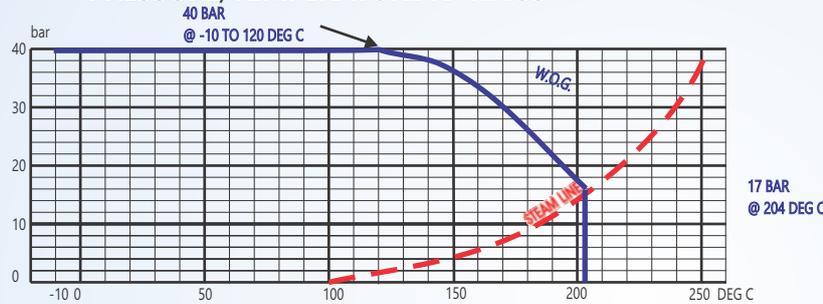
### BREAKAWAY BRONZE STRAINER - S/S SCREEN 17 BAR STEAM

#### FEATURES

CONFORMS TO BS 5154  
BS 21 TAPER THREADS  
SPARE SCREENS AVAILABLE ON REQUEST

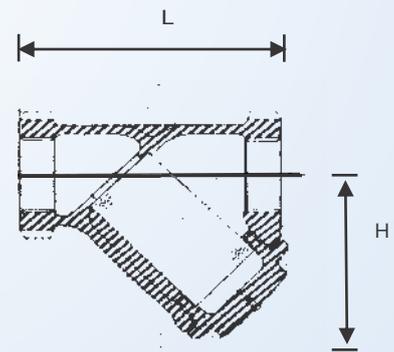
MAX WORKING PRESSURE NON SHOCK		HYDROSTATIC TEST PRESSURE	
MAX STEAM	17 BAR @204 DEG C	SHELL	SEAT
MAX W.O.G.	40 BAR @ -10 TO 120 DEG C	60 BAR	44 BAR
	7 BAR @ 204 DEG C		

#### PRESSURE/TEMPERATURE RATINGS



ITEM	SPECIFICATION
BODY	BZ-BS1400LG2C
BODY CAP	BZ-BS1400LG2C
SCREEN	410 SS
GASKETS	COMPRESSED ASBESTOS

SIZE BSP	L	H	MASS KG
8			
10			
15	71	52	0.4
20	97	72	0.75
25	118	85	1.25
32	148	95	1.8
40	168	115	2.75
50	210	135	3.75



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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

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*Break Away*  
Brand Valves

**FIG 2880FI**

**BRONZE PARALLEL SLIDE BOILER BLOW DOWN VALVE**

## FEATURES

FITTED WITH GRADE 304 DISCS AND SEATS  
BRONZE RACK AND PINION TO ENSURE SMOOTH OPERATION  
FLANGED AND UNDRILLED  
THE PACKING GLAND IS PROVIDED WITH A  
LOCKING DEVICE WHICH PREVENTS THE KEY BEING  
REMOVED WHEN IN THE OPEN POSITION

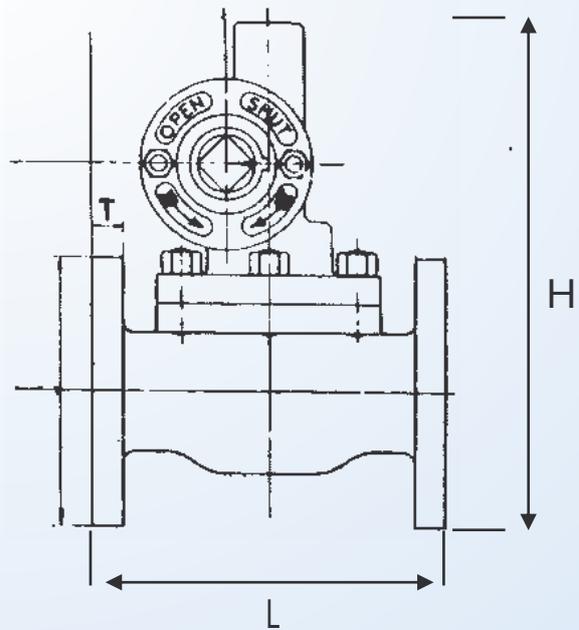
MAX WORKING PRESSURE  
NON SHOCK

MAX  
STEAM 17 BAR @ 200 DEG C

ITEM	SPECIFICATION
BODY	BRZ Bs1400 LG2C
DISC	304 S/S
SEATS	304 S/S
HANDLE	MILD STEEL



SIZE BSP	L	W	H	MASS KG
25	170	170	190	11
32	180	180	230	13.4
40	190	190	290	17
50	206	206	310	22



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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
VALVE

*Break Away*  
Brand Valves

**FIG 2337**

**BRONZE BOILER GAUGE GLASS COLUMNS SCREWED AND FLANGED**

### FEATURES

SCREWED AND FLANGED (4 1/2" OD) TO SUIT  
19MM OD GAUGE GLASS  
FITTED WITH 1/2" SAFETY BALL CHECK VALVE

MAX WORKING PRESSURE  
NON SHOCK

MAX  
STEAM 17 BAR @200 DEG C

ITEM	SPECIFICATION
BODY	BRZ Bs1400 LG2C
HANDLE	BRASS
RUBBER CONES	NEOPRENE
SLEEVES	PURE GRAPHITE
SAFEX BALL	304

### WEIGHTS:

4 1/2 INCH OD FLANGE UNDRILLED: 6 Kg

SCREWED: 15 MM AND 20 MM 3.6 Kg



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## PIPING INFORMATION

mm NOM BORE	SANS 62 : 1971 MEDIUM					SANS 62 : 1971 HEAVY					ASTM A 106 GRADE B SEAMLESS						JIS B 2304				
	O/D mm	WALL min/mm	KG/M (Plain End)	MAX: W.P. kPa		O/D mm	WALL min/mm	KG/M (Plain End)	MAX: W.P. kPa		SCHEDULE 40			SCHEDULE 80			Max W.P. @ 340°C		O/D	Wall SGP	
				Water	Steam Air-Gas				Water	Steam Air-Gas	O/D mm	Wall mm	WT/M kg	O/D mm	Wall mm	WT/M kg	Sch 40 Mpa	Sch 80			
8	13,5	2,0	0,60	2100	1050	13,5	2,5	0,77	2400	1200	13,7	2,2	0,63	13,7	3,0	0,80					
10	17,2	2,0	0,89	2100	1050	17,2	2,5	1,05	2400	1200	17,1	2,3	0,85	17,1	3,2	1,10					
15	21,3	2,3	1,12	2100	1050	21,3	2,8	1,34	2400	1200	21,3	2,8	1,26	21,3	3,7	1,62	7,6	16,8	21,7	2,8	
20	26,9	2,3	1,44	2100	1050	26,9	2,8	1,73	2400	1200	26,7	2,9	1,68	26,7	3,9	2,19	6,9	14,6	27,2	2,8	
25	33,7	2,8	2,23	2100	1050	33,7	3,5	2,75	2400	1200	33,4	3,4	2,50	33,4	4,5	3,23	8,3	15,7	34,0	3,2	
32	42,4	2,8	2,84	1700	850	42,4	3,5	3,48	2100	1050	42,2	3,6	3,38	42,2	4,9	4,46	7,4	13,4	42,7	3,5	
40	48,3	2,8	3,26	1700	850	48,3	3,5	4,00	2100	1050	48,3	3,7	4,05	48,3	5,1	5,40	6,9	12,6	48,6	3,5	
50	60,3	3,2	4,61	1400	700	60,3	3,9	5,60	1700	850	60,3	3,9	5,43	60,3	5,5	7,47	6,2	11,5	60,5	3,8	
65	76,1	3,2	5,87	1400	700	76,1	3,9	7,15	1700	850	73,0	5,2	8,62	73,0	7,0	11,40	8,4	13,4	76,3	4,2	
80	88,9	3,5	7,60	1400	700	88,9	4,2	9,03	1700	850	88,9	5,5	11,30	88,9	7,6	15,30	7,5	12,3	89,1	4,2	
100	114,3	3,9	10,92	1050	550	114,3	4,7	13,02	1400	700	114,3	6,0	16,07	114,3	8,6	22,30	9,9	14,3	114,3	4,5	
125	139,7	4,2	14,45	1050	550	139,7	4,7	16,06	1400	700	141,3	6,6	21,80	141,3	9,5	30,90	8,7	12,8	139,8	4,5	
150	165,1	4,2	17,15	850	400	165,1	4,7	19,07	1050	550	168,3	7,1	28,20	168,3	11,0	42,50	7,9	12,4	165,2	5,0	
SABS 719/71 GRADE B (100°C MAX)																					
	O/D mm	4,5 mm WALL		6 mm WALL																	
		WT/M kg	Test Press kPa	WT/M kg	Test Press kPa																
200	219,1	24,9	7430	33,1	9900						219,1	8,2	42,5	219,1	12,7	64,6	6,9	10,9	216,3	5,8	
250	273,0	31,2	5960	41,4	7950						273,0	9,3	60,3	273,0	15,1	95,8	6,3	10,4	267,4	6,6	
300	323,9	37,1	5020	49,3	6700						323,9	10,3	79,7	323,9	17,5	132,0	5,9	10,1	318,5	6,9	
350	355,6	40,7	4580	54,2	6100						355,6	11,1	94,3	355,6	19,0	158,0	5,8	10,0	355,6	7,9	
400	406,4	46,6	4000	62,1	5340						406,4	12,7	123,2	406,4	21,4	203,0	5,8	9,9	406,4	7,9	
450	457,2	52,6	3560	70,0	4740						457,2	14,3	156,0	457,2	23,8	254,0	5,8	9,8	457,2	7,9	
500	508,0	58,5	3200	78,0	4270						508,0	15,1	183,1	508,0	26,2	311,0	5,5	9,7	508,0	7,9	

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# Test Pumps, Threading and Grooving Machines

Page	Product	FIG #
114	Test Pumps 100 -300 Bar	HTP/MODEL
115	Test Pumps 100 -300 Bar HTP Instructions 2	HTP
116	Test Pumps - 50 Bar Cp50	HTPI/CP50
117	Test Pump Electric DSY60	HTPI/DSY60
118	Threading Machines 1 15-50	TZIT015/050
119	Threading Machines 2 15 - 80	TZIT015/080
120	Threading Machines 3 15-100	TZIT015/100
121	Grooving Machines 1 YG12E	TZIT/YG12E
122	Grooving Machines 2 GC02	TZIT/GC02

# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
VALVE

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Brand Valves

### BREAKAWAY HYDRAULIC TEST PUMPS

#### HTP 501

**CAPACITY:** 100 BAR  
**COMPLETE WITH:** TEST PUMP, STAND, PRESSURE GAUGE, 1M HP HOSE, 3M LP HOSE.  
DRAWS WATER FROM A BUCKET OR FITS ON A 44 GALLON DRUM.  
Standard Pressure Gauge: 0-6000 Kpa



Strokes Per Litre: 26

#### HTP 502

Standard Pressure Gauge: 0-6000 Kpa



Strokes Per Litre: 26

#### HTP 503

**CAPACITY:** HTP 503: 200 BAR Std Pressure Gauge 0-6000 Kpa  
HTP 503HP: 300BAR Std Pressure Gauge 0-40 Mpa  
HTP 503HC: 100 BAR Std Pressure Gauge 0-6000 Kpa

**COMPLETE WITH:** TEST PUMP, CONTAINER, PRESSURE GAUGE, 1M HP HOSE



Tank Dimensions:  
Length: 510 mm  
Width: 300 mm  
Height: 65 mm  
Excluding Handles

Strokes Per Litre:  
HTP504: 26  
HTP504 HP: 60  
HTP504HC: 22

#### HTP 504

**CAPACITY:** HTP 504: 200 BAR Std Pressure Gauge 0-6000 Kpa  
HTP 504 HP: 300 BAR Std Pressure Gauge 0-40 Mpa  
HTP 504 HC: 100 BAR Std Pressure Gauge 0-6000 Kpa

**COMPLETE WITH:** TEST PUMP, CONTAINER, PRESSURE GAUGE, 1M HP HOSE, PLUS SPECIAL WATER MAINS INLET WITH NEEDLE VALVE REGULATION



#### HTP 505

**CAPACITY:** 200 BAR Std Pressure Gauge 0-6000 Kpa

**COMPLETE WITH:** TEST PUMP, CONTAINER, PRESSURE GAUGE, 1M HP HOSE



Strokes Per Litre: 26

#### PLUS

- 1) Fold up carry case
- 2) Low pressure(high capacity) pump
- 3) High pressure pump
- 4) Light weight stand
- 5) Adjustable handle
- 6) 3m LP Hose with tap connection
- 7) Detachable lid
- 8) Special water mains inlet supply needle valve for regulation

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

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## BREAKAWAY HYDRAULIC TEST PUMP INSTRUCTIONS

### **PROCEDURE A:** FOR USE ON ALL MODELS REF. NO.'S 501,502,503,504,505,506.

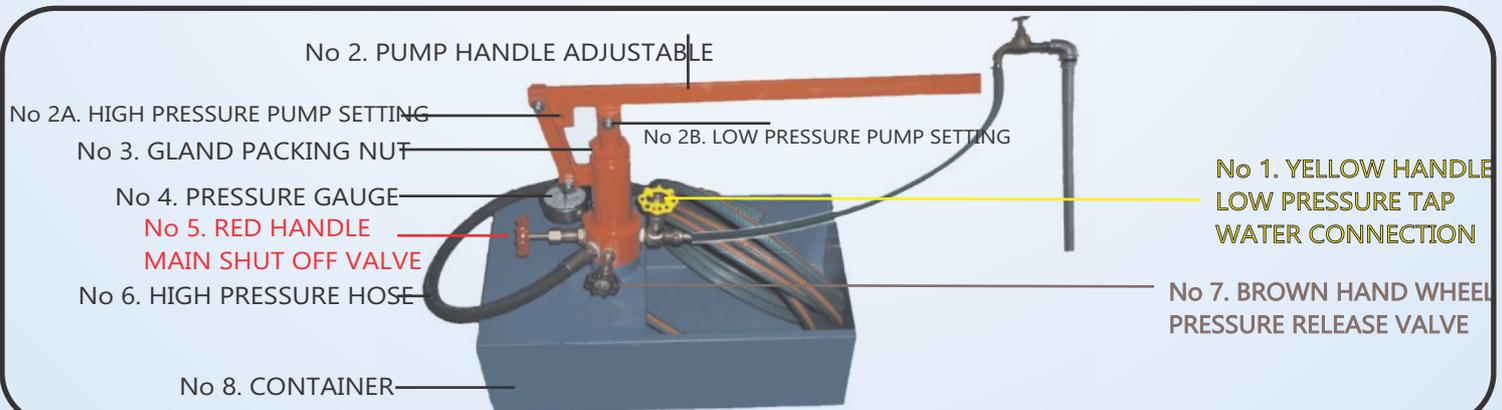
1. When ordering HTP, make sure that you have selected and fitted the correct gauge, according to your required test pressure.
2. Make sure the container is clean, fill container with clean water (IF possible add soluble oil to water to prevent rusting) on Ref. No's 503,504,505,506 and/or
  - 2a. On Ref. No.'s 502,504,505,505,506, an optional or alternative water supply can be used by connecting your low-pressure garden hosepipe mains onto No. 1 of the test pump. (You do not necessarily need to fill the container with the water if this method is used.)  
Once the hose pipe is connected, open the yellow hand wheel Ref. No. 1 and the red handwheel, Ref. No. 5 fully, close No7 Brown Hand wheel, and then open your L/P tap water supply.

**BEWARE** The handle Ref. 2 might rise: The Water will automatically push through the test pump to the unit to be filled without having to pump the test pump at all. Once the unit is filled with water, you can now start pumping until you obtain the test pressure required.

3. For high pressure pumping: Select 2a of the handle for high pressure pumping or 2b for lower pressure pumping.

### **PROCEDURE B:** PREPARATION FOR ALL BREAKAWAY H.T.P. MODELS

1. Close red handle Ref. 5 and brown hand wheel Ref. 7 and pump handle Ref. 2 until it becomes hard and unable to pump. DO NOT FORCE (No pressure reading will occur on pressure gauge) Should this not happen, clean seat and/or tighten gland packing nut.
2. After not being able to push the handle down, now release red handwheel, Ref. 5 only and pump until water comes out of hose. (Your pump is now ready for use)
3. Connect H.P. hose Ref. 6 onto the item for testing, but make sure that you have pre-filled the vessel with water that's to be tested.
4. Pump handle Ref.2 until you obtain required test pressure.
5. Once test pressure is obtained, close red handwheel Ref. 5 and carry out your testing requirements.
6. To release pressure, open brown handwheel Ref. 7.
7. To prevent rust, whilst NOT IN USE: Wash the unit out after use with soluble oil.  
N.B. On Ref. No.'s 501, 502, 503, 504, 505, 506, 26 strokes of the handle will give approximately 1 litre of water.



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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

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**HTPI/CP50**

**MANUAL TEST PUMP**

**CP-50**



Manual Hydraulic Pressure Testing Pump CP -50 is newly developed and test pump with stable output, easy to maintain. It has double valve pressure lock, and good operate function.

#### Feature

1. Hydraulic testing for leaks in water pipe system, heating and oil installations, air-conditioning and solar power system.
2. Completed with high pressure hose and connectors.
3. Pump plunger can be lubricated and has replaceable seals.
4. Efficient running needle valves ensure continuous operation.
5. Stainless steel of water tank can be changed for choice

#### Specifications

Model	Pressure (Bar)	Flow (Volume)	G.W/N.W (kgs)	Size (cm)	Water Tank (Volume)	Piston Material	Pump Body Material
CP-50	0-50	45ML	7.7/7.2	53*20*30	10L	POM	Aluminum

2mm thickness of body, copper pump body, and aluminum box.

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

**BMC**  
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**HTPI/DSY60**

**ELECTRIC TEST PUMP**

**DSY-60**



Future:

Stable output, low power with convenient carry and easy maintain.

Reliable device of pipeline construction, pressure vessel manufacture test, pipeline pressure test.

Widely used in pressure vessel manufacturer, architectural trim building site, construction test of fire fighting device and estate management of garden house.

Specifications

Model	Pressure (Bar)	Flow Volume	G.W/N.W (kgs)	Size (cm)	Power (W)	Voltage (V)	Packing	Pump Body Material
DSY60	0-60	3.0L/m	12.5/10.5	40*29*30	250	220/110	Plastic box	Copper

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

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**TZIT015/050**

**Threading Machine 1/2"-2"**

**HX-50**



**Feature:**

Compact design with heavy-duty performance. Easy and fast transport and set-up.

Universal applicable, can also work on workbench.

This model mainly used for processing precision standard of pipe threads.

**Specification:**

Pipe Threading Machine HX-50	
Motor	750W, 115V or 220V, 50-60Hz
Spindle Speed	28 RPM
Net Weight	65 KGS
Capacity	1/2"-2"
Heavy duty, light weight. Size: 65*41*52cm All spare parts can be interchangeable with standard threader.	

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

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**TZIT015/080**

**Threading Machine 1/2"-3"**

**HX-80**



**Feature:**

Compact design with heavy-duty performance. Easy and fast transport and set-up.

Universal applicable, can also work on workbench.

This model mainly used for processing precision standard of pipe threads.

**Specification:**

Pipe Threading Machine HX-80	
Motor	750W, 115V or 220V or 380V, 50-60Hz
Spindle Speed	27/11 RPM
Net Weight	105KGS
Capacity	1/2"-3"
Longer threading and cutting.	
Pass CE/ISO certification.	
All spare parts can be interchangeable with standard threader.	

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

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**TZIT015/100**

**Threading Machine 1/2"-4"**

**HX-100**



**Feature:**

Compact design with heavy-duty performance. Easy and fast transport and set-up.  
Universal applicable, can also work on workbench.  
This model mainly used for processing precision standard of pipe threads.

**Specification:**

Pipe Threading Machine HX-100	
Motor	750W, 115V or 220V or 380V, 50-60Hz
Spindle Speed	24/9 RPM
Net Weight	130KGS
Capacity	1/2"-4"
Heavy duty, light weight. Capacity: 1/2"-4" (BSPT & NPT)(OPTIONAL) (1/2"-3/4", 1"-2", 2 1/2"-4") Aluminium casted body, strong gear box. All spare parts can be interchangeable with standard threader.	

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

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## TZIT/YG12E Pipe Groover 2"-12" Sch.10 / 2"-6"Sch.40 Pipe



### Features:

The Model YG12E hydraulic roll groover, powered by 750W induction motor, is capable of grooving up to 12" Sch 10 and 6" Sch 40 standard wall pipes. "Separate knurling roller" design of drive shaft for convenient replacement changing. The YG12E comes standard with support legs, the unit can be set up quickly. The induction motor ensures steady and quiet working.

### Technical Specification:

Model No.	YG 12E
Motor	750 w induction, 50/60Hz
Switch	Heavy Duty ON/OFF switch
Spindle Speed	24 RPM
Net Weight	120 Kg
Standard equipment	1 set 2"-6" Sch.40/Sch.10 Roll set 1 set 8"-12" Sch.10 Roll set
Capacity	2 "-12" Sch.10 Pipe 2 "-6" Sch.40 Pipe

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# INDUSTRIAL VALVE & ENGINEERING SUPPLIES VALVE & ENGINEERING MERCHANT COMPANY

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**TZIT/GC02**

Pipe Groover 1 1/4- 6" Med Steel Pipe  
1 1/4" - 3" Schd 40 Pipe



**Features:**

- Drive Shaft and groove rolls are easy to change.
- Lightweight, Only 17 Kg allows for easy transport and storage.
- Durable cast iron housing guarantee extensive field use
- Cam type feeding actuation, allowing minimum effort to for roll grooves

**Specification:**

Model No.	GC02
Motor	1500W Universal Type
Speed	38 RPM
Weight	17 Kg
Standard equipment	1 set 1 1/4"-6"for Medium Pipe which will also do 1 1/4" -3" Schd 40 pipe
Capacity	1 1/4"- 6" schd 40 , 2"- 12" Medium Wall (Please check standard Equipment)

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# Ancillary Items

<b>Page</b>	<b>Product</b>	<b>FIG #</b>
<b>124</b>	<b>PTFE Tape Small and Large Size Rolls</b>	<b>PTFEI</b>
<b>125</b>	<b>Hemp, Stag, Cutting Oil, Red Oxide, Bolts and Nuts, QD Enamel</b>	

# INDUSTRIAL VALVE & ENGINEERING SUPPLIES

## VALVE & ENGINEERING MERCHANT COMPANY

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**PTFEI**

**BMC Brand PTFE Tape 12 and 19mm**

### TECHNICAL DATA SHEET

#### Description:

PTFE seal tape is appropriate for use in pipes and fittings for plumbing and gas connections such as pipe threads, thread on pipe fittings etc. Applications and uses for PTFE seal tape also include any other industrial tasks that require sealing and insulating ...

PTFE seal tape is made from 100% pure PTFE (Polytetrafluoroethylene) resins. PTFE is a master in chemistry and physics, caused PTFE to be used as a sealing material widely used in industrial applications, civil-construction, machinery, chemicals, and space navigation especially in drainage systems, and are characteristics of thread sealing, insulation, corrosion resistance anti-aging, using in oxidizing agent for a long term. PTFE TAPE available in a variety of widths,lengths and thickness, in white Thread seal Tapes(low, medium, high density) and Color coded Premium Thread Seal Tapes are also available for specialized applications.

#### Technical Data:

Item NO.	Description	Width	Thickness	Length	Density	Reel OD	Reel Color	Cover Color	Reel&Cover Material
1	PTFE TAPE	12mm	0.075mm	10m	0.25g/cm3	56mm	Yellow	Yellow	PP reel, PP cover
2	PTFE TAPE	19mm	0.1mm	30m	0.45g/cm3	86mm	Yellow	Yellow	PP reel, PP cover

Chemical Composition	Temperature Range	Tensile Strength	Pressure Resistance	Elongation	PH range	Lubricant Content
100% PTFE	-240°C to +260°C	8N/mm2	UP TO 30 BAR	25% min	1-14	< 0.1%

#### Directions for use:

For threads up to 1-½" diameter, use ½" width of thread seal tape. For larger diameter threads, use ¾" width of thread seal tape.

- 1.Clean the male and female threads thoroughly.
- 2.Wrap the tape around the male thread. Take care to keep the tape under tension as you are wrapping so the tape moulds itself into root of the thread.
- 3.Make sure that you wrap with the thread.
- 4.Make sure that the tape does not overlap the end of the fitting.

#### Characteristics:

Compatible with a broad range of gases and liquids  
 Compatible with a broad range of piping materials  
 Will not harden or crack on the joints  
 Effective across a broad range of temperatures and pressures  
 Acts as a thread lubricant and anti-seize  
 Prevents electrolytic corrosion of threads  
 No curing time  
 Non-flammable  
 Non-toxic

#### Precautions:

Note: Keep PTFE Thread Sealing Tape clean. Replace the clip on the spool after use. Store in a clean place.



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## Ancillary Items



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