ENGINEERING PROCOL

FLANGED - BALLVALVES FIG. 92
ANSI 150 1/2“ - 6“

Stainless cast steel A351CF8M - Carbon cast steel A216WCB

Firesafe certified acc. BS 6755 until 4“

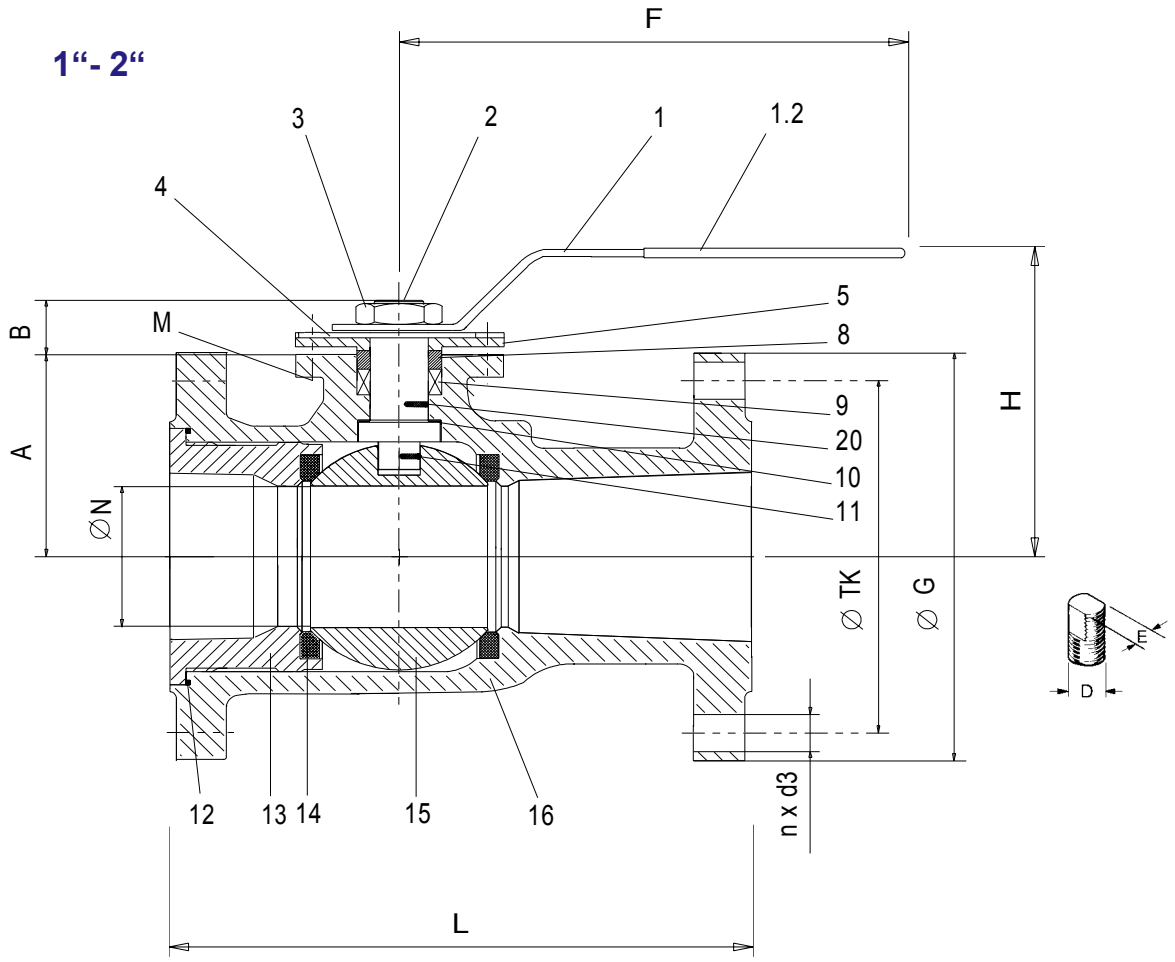
Zertifiziertes Management-System SQS ISO 9001
Reg.Nr. 12119

1/2 ”- 2 ”

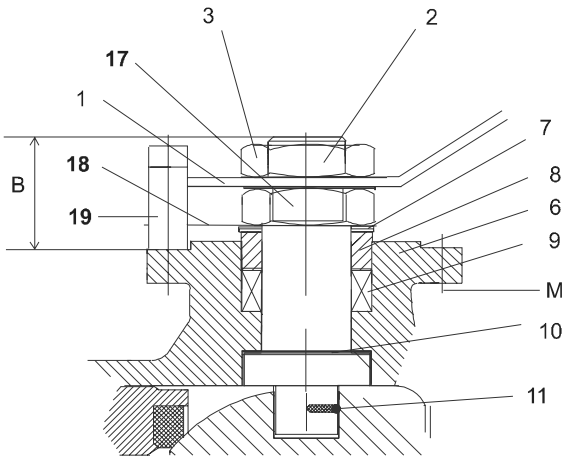
3 ” - 6 ”

Cee Vee Ltd.
Tel 01453 821666 Fax 01453822298
www.cee-vee.co.uk

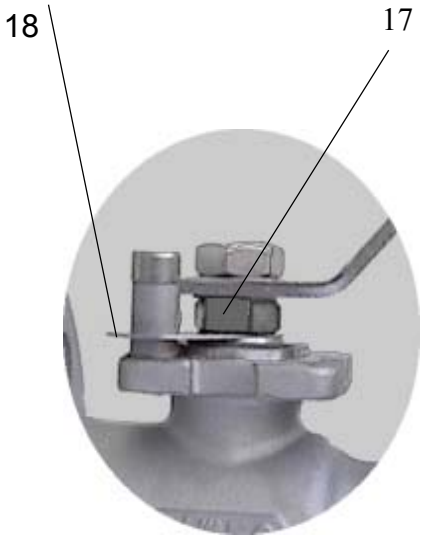
1“- 2“

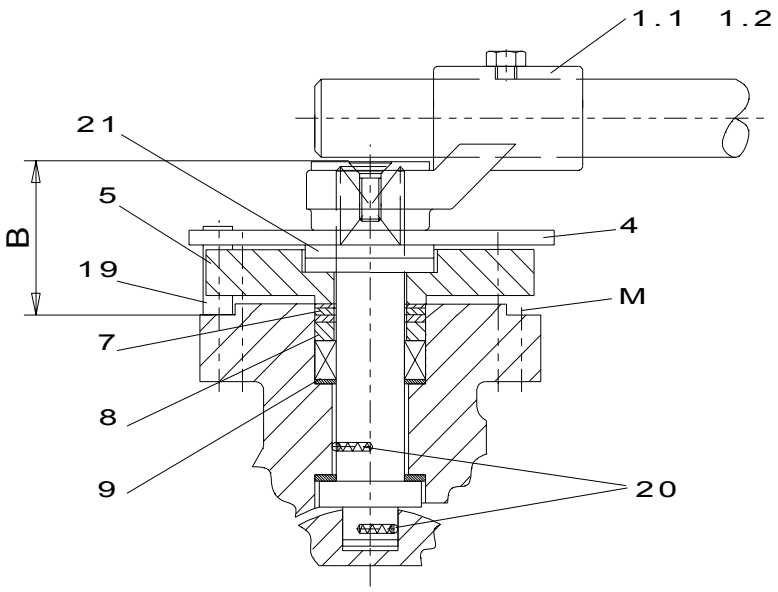


Item			Stainless steel	Carbon steel
1		Handle	304	304
1.1		Adapter	A351CF8M	A351CF8M
1.2		Sleeve	Vinyl	Vinyl
2		Stem	316	316
3		Stem nut	304	304
4		Stop plate	304	304
5		Gland flange oval	A351CF8M	A351CF8M
6		Top flange ISO 5211	A351CF8M	A216WCB
7		Belleville washers	301	301
8		Stem seal follower	316	316
9		Stem packing	Graphit	Graphit
10		Stem seal	PTFE	PTFE
11		Antistatic device on request	316	316
12		Body seal	Graphit	Graphit
13		Insert	A351CF8M	A216WCB
14		Seat	PTFE	PTFE
15		Ball	316	316
16		Body	A351CF8M	A216WCB
17	1/2“+3/4“	Saddle lock	301	301
18	1/2“+3/4“	Separator	301	301
19		Stop pin	316	316
20		Antistatic device on request	316	316
21		Intermediate ring	316	316

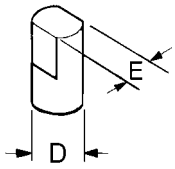


1/2“ + 3/4“





3“ - 6“



DN	A	B	D	E	F	ØG	H	L	M	ØN	nxd3	ØTK	wght kg	Cv	Break torques Nm
1/2"	30	14	5/16" UNF	5	135	88,9	69	108	F03	10	4x16	60,5	1.8	10	10
3/4"	31	18	3/8" UNF	6	135	98,6	77	117	F03	15	4x16	69,9	2.4	16	12
1"	35	24	3/8" UNF	6	160	108	105	127	F03	20	4x16	79,2	2.8	25	15
11/2"	47	28	1/2" UNF	8	180	127	110	165	F04	32	4x16	98,6	5.1	62	30
2"	57	28	5/8" UNF	10	190	152,4	110	178	F05	38	4x19	120,7	7.5	84	40
3"	102	26	22	14	480	190,5	135	203	F07	65	4x19	152,4	15.8	245	190
4"	112	26	22	14	480	228,6	145	229	F07	80	8x19	190,5	23.3	450	240
6"	117	26	30	20	480	279,4	185	254	F10	125	8x22	241,3	45.5	650	280

Cv = Volume of water in gallon/min at a pressure drop of 1 psi

PROCOL ENGINEERING

Declaration of conformity
according to the attachment VII of the EC standard 97/23

The Company
PROCOL Engineering AG
Undermülistrasse 24
CH-8320 Fehraltorf

Declares in fully own responsibility, that the product
(pressure containing equipment part without mounted additional aggregates)

Fig.: **Ball Valve** - Series **20, 90 92**

Quantity: see delivery note No. xxxxxxx

on which this declaration refers, is in conformity with EC standard 97/23
and has been submitted to the corresponding conformity test procedure

Fluids of group 1 Dangerous gases and Fluids if p_s > 0.5bar	<=DN 25	DN > 25 Diagram 6, Article 3 Attachment II		
Fluids of group 2 Other gases and Fluids if p_s > 0.5bar	<=DN 32	DN > 32, p_s x DN >1000 Diagram 7, Article 3 Attachment II		
Category	none	I	II	III
Conformity-Test procedure	-	Module A	Module A1	Module H

The surveillance is made by SVTI

Society for technical inspection
Richtistrasse 15
CH-8304 Wallisellen

Lloyd's Register

Project: **Procol Engineering** Certificate Number: **SOU9720279/1**

Client: **Warrington Fire Research** Office: **Crawley**

Client's Order Number: **Test No. R13521** Date: **06/06/97**

Order Status: **Incomplete**

Inspection Dates First: **28/04/97** Final: **28/04/97**

This certificate is issued to **Warrington Fire Research** to certify that R.D.Winstanley the undersigned surveyor to Lloyd's Register did, at their request, attend their premises at Trowers Way, Redhill, Surrey on the above date for the purpose of witnessing fire tests on the undernoted valve tested on behalf of **Procol Engineering AG.**

Description.

1-Off **Procol Series AF 92 Size 2" Flanged Ball Valve. Reduced Port ANSI 150lbs.**

Scope of Inspection

a. Visual examination.
b. Witness Fire Tests **No.R13521** in accordance with BS 6755: Part 2: 1987
c. Endorse Test Results and issue Lloyd's Register Certificate.

A Fire Test in accordance with BS 6755: Part 2: 1987 was witnessed by the undersigned during which the following was observed.

THROUGH LEAKAGE DURING BURN PERIOD.	**70ml**
EXTERNAL LEAKAGE	**Zero**
BURN PERIOD	**30 mins.**
TEST PRESSURE	**HP 210psig LP 29psig**

On completion of testing and cooling down the valve was visually examined and as far as could be determined found to be satisfactory and free from any significant distortion.

In view of the tests now conducted it is considered by the undersigned that the performance of the above valve has been satisfactorily demonstrated as meeting the requirements of **BS 6755: Part 2: 1987** and that the results reported for **Test No. R13521** are true and accurate.

p.p. **R.D.Winstanley**
Senior Surveyor to Lloyd's Register.

NOTICE: This certificate is subject to the terms and conditions overleaf, which form part of this certificate.

FORM 1123 (05/96) Lloyd's Register of Shipping, registered office: 71 Fenchurch Street, London EC3M 4BS

TEST REPORT

TEST SPONSOR : **PROCOL ENGINEERING AG**, Postfach, CH-8802 Kilchberg, Zurik, Switzerland.

SUMMARY : A 2" Class 150 1 piece flange Ball has been subjected to a fire type-test in accordance with the method described in Appendix A of BS 6755: Part 2: 1987, to confirm the pressure-containing capability of the valve during and after the fire type test.

The valve was a 1 piece flange Ball valve Series AF92, Size 2". Reduced port ANSI 150 LBS.

A summary of the leakage rates is given in the following table:-

Leakage Rate in ml/min	Through Leakage Rate	Maximum Allowed	External Leakage Rate	Maximum Allowed
Burn Period	2.3	800	Zero	200
Cool Down				
Low Hydrostatic Pressure Test	Zero	80	Zero	40
High Hydrostatic Pressure Test			Zero	400

The valve satisfied the performance requirements specified in Clauses 6-11 of BS 6755: Part 2: 1987.

DATE OF TEST : 28 April 1997

REPORT ISSUED : 10 June 1997

Warrington FIRE research CONSULTANCY • TESTING

CeeVee Ltd.
Tel 01453 821666 Fax 01453 822298
www.cee-vee.co.uk