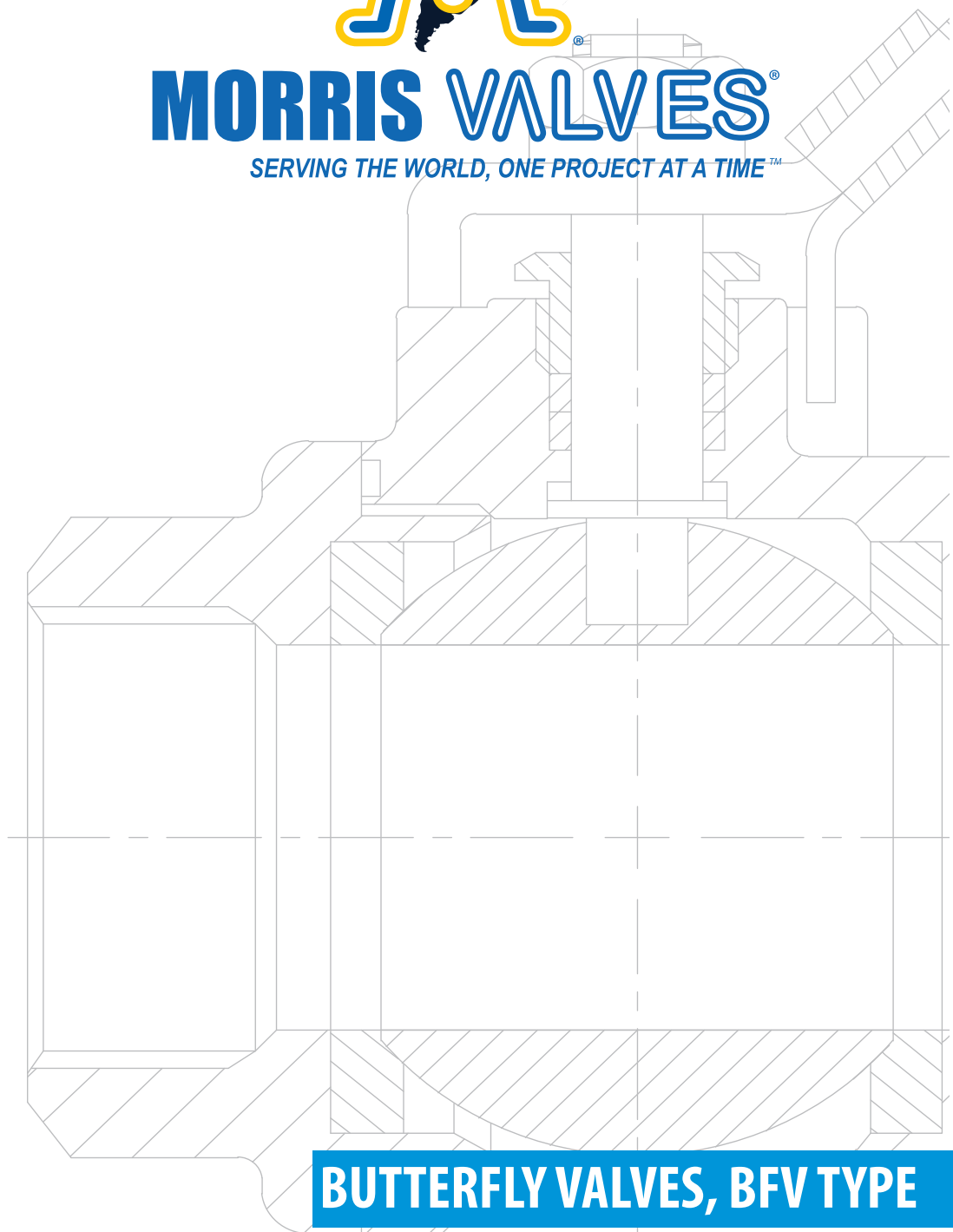




MORRIS VALVES®

SERVING THE WORLD, ONE PROJECT AT A TIME™



BUTTERFLY VALVES, BFV TYPE

www.morrisvalve.com



In 1984, our journey into the business of repairing valves and industrial instrumentation began. That journey has led us to represent and service well known American brands and companies. In early 2000, our experience and growing passion for the valve industry encouraged our decision to launch our own brand, Morris Valves. Starting with the highly requested Ball Valves, the brand has been based on the principal of quality and performance to match our customers' needs. Our high standards of production later lead us to incorporate other models such as Gate Valve and Check Valves to our production. These additions were carefully selected to match our Standard of Quality. Our success has been driven by our belief of "Tradition with Quality" in everything we do. Our products are developed with that belief which drives our growth and guides the service we provide to our customers.

Mision

Our mission is to use our highly trained, highly focused, and extremely motivated staff to work with manufacturers who value quality and have the vision for new development and product applications to ensure the timely provision of goods and services related to valves, their components and industrial equipment in general. We maintain a rigorous standard of customer satisfaction, which will provide for the welfare of the company, the welfare of the countries we serve, and most importantly the sustainability of the planet.

Contacts

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Vision

Our vision is to be amongst the leading corporations in the supply of goods and services related to valves, their components and industrial equipment in general. We want to conquer new markets in conformity with international standards and remain committed to customer satisfaction, the welfare of our company and the sustainability our planet.

"Serving the world, one project at a time"



CE APPROVED

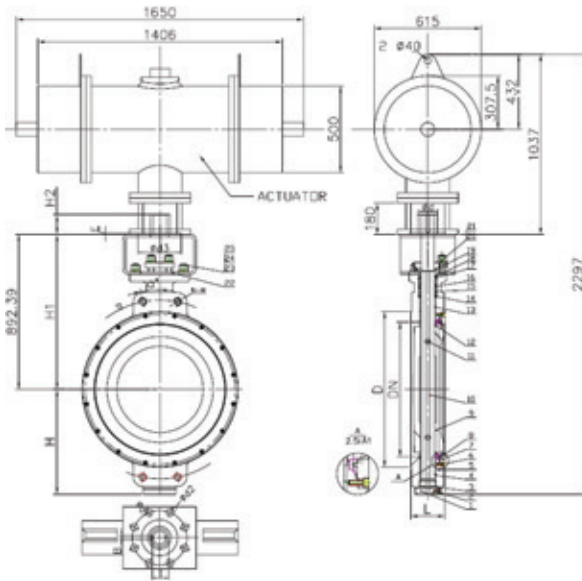
SIZE:
DN (28 – 120)

HOW TO ORDER

BODY MATERIAL SIZE SEAT END CONNECTIONS
WBV - - - -

APPLICATION:
FLUID:

TEMPERATURE:
PRESSURE:
DETA P:



BFBV-2EXC TYPE

SPECIFICATIONS:

- * DESIGN : EN593
- * FACE TO FACE DIMENSION: ISO 5752
- * END FLANGE DIMENSION: EN1092
- * STD TEST: EN12266
- * SHUT OFF: ANSI CLASS VI.
- * SHELL TEST PRESSURE (Ps): 0.385 MPa
- * SEAL TEST PRESSURE (Pn): 0.165 MPa
- * TEMPERATURE RANGE: 0 to 150 °C
- * SELF ADJUSTING STEM PACKING
- * BLOW-OUT PROOF STEM DESIGN
- * ISO 5211 MOUNTING PAD
- * GEAR OPERATED / PNEUMATIC OPERATED

OPTIONS:

- * SILICONE FREE / OIL & GREASE FREE
- * APPLICATIONS: AS SHUTTING OFF OR FLOW CONTROLLING IN CHIMNEYS AND DISCHARGING DUCTS
- * SERVICE: AIR, GAS, STEAM

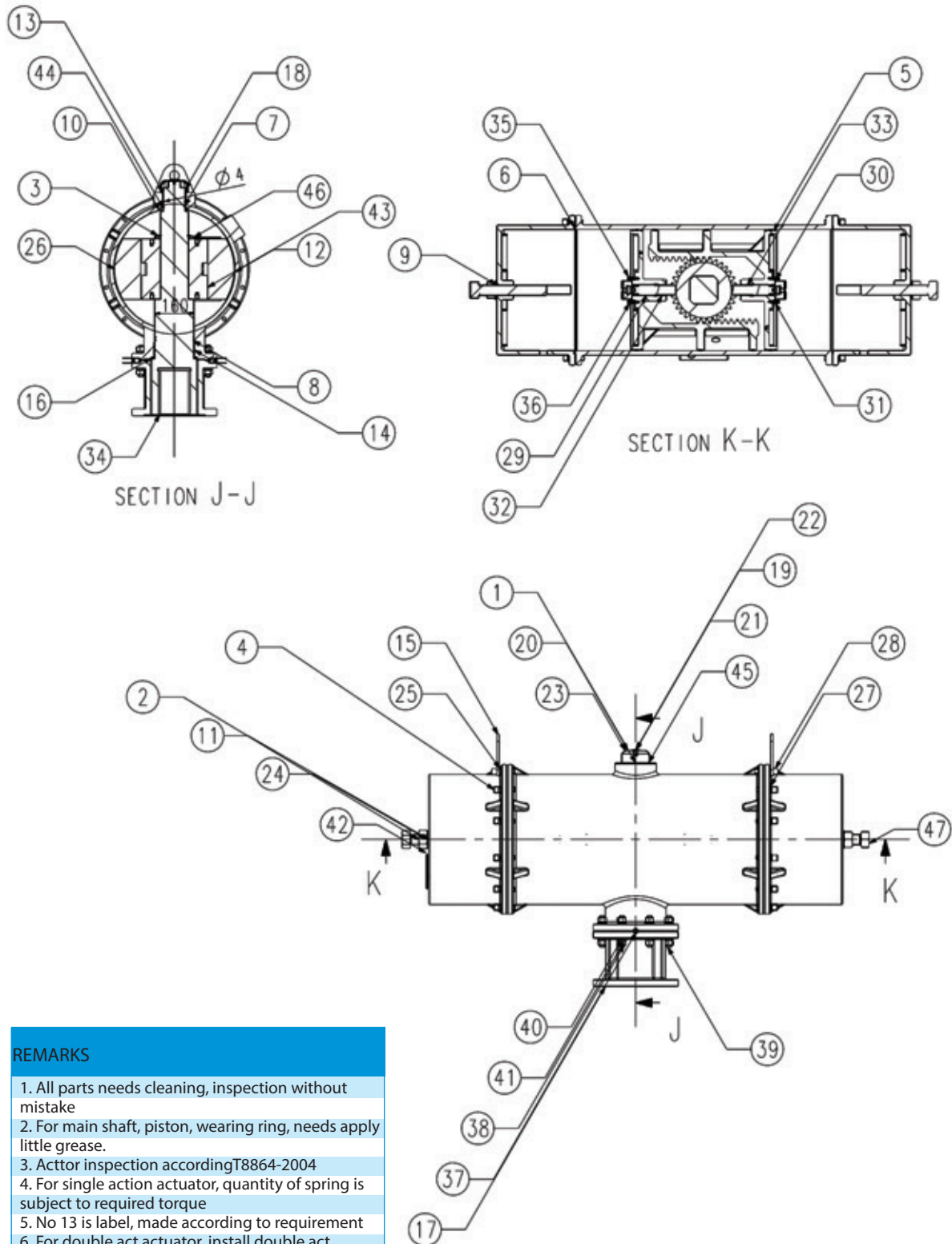
PARTS	MATERIALS	QTY
1 Bottom Cover	ASTM A 105	
2 Hexagon Screw	A193 –B7	1
3 SPRL Wound Gasket	RPTFE	
4 Down Bearing Bushing	SF - 1	1
5 Body	ASTM A 216 WCB	1
6 Hexagon Screw	A193 – B7	
7 Retainer Ring	ASTM A 105	1
8 Seat	RPTFE	1
9 Disc	ASTM 216 WCB + ENP	1
10 Stem	ASTM A276 – 410 + Cr	1
11 Straight Pin	ASTM A276 – 410 + Cr	1
12 Positioning Bushing	RPTFE	1
13 Up Bearing Bushing	SF - 1	1
14 Packing Gasket	SS 304	1
15 V - Packing	RPTFE	1
16 Isolation Ring	SS 304	1
17 O - Ring	FPM	1
18 Packing Seat	SS 304	1
19 Packing Gland	ASTM A 216 WCB	1
20 Hexagon Nut	A194 – 2H	
21 Stud Bolt	A193 – B7	
22 Yoke	AISI 1020	1
23 Spring Gasket	AISI 1566	1
24 Hexagon Nut	A194 – 2H	1
25 Stud Bolt	A193 – B7	

BODY VALVE MAIN DIMENSIONS

SIZE	L	D	D1	H	H1	N-M	°	H2	Ød	B	T	Ød1	Ød3	E	n- Ød2
32"(DN 800)	190	880	920	550	710	4 – M27	7.5 °	180	120	28	110	298	250	4	8 – Ø22

ACTUATOR SPECIFICATIONS. DWG. MODEL: MRP – 500 – SR - NT

FLANGE STD ISO 5211	F30	CYLINDER DIM Ø mm	500	AIR CONSUMPTION (L)	OPEN	157
CONNECTION DIM (Q)	298mm	OPERATION PRESSURE (BAR)	2.5 - 8		CLOSE	213
SCREW DIM (W)	Ø 22	ROTATING RANGE (°)	0 – 90 / (+/-) 5	MODULATION	Screw (-40 + 150) ° C	
OCTAGONAL DIM (O)	Ø 120			TEMPERATURE		
OCTAGONAL DEEP (T)	180 mm	Operating time (Seg)	SR	9.1	AIR REQUIREMENTS: No contain Oil, Steam, Corrosive Gases or Liquid. Particles less than 0.1 g/m3, and 30 microns	
DISTANCE (H)	5 mm					
L1 – L2 (mm)	1406 - 1706	WEIGHT (Kg)	SR	1240		



REMARKS

1. All parts needs cleaning, inspection without mistake
2. For main shaft, piston, wearing ring, needs apply little grease.
3. Actor inspection according T8864-2004
4. For single action actuator, quantity of spring is subject to required torque
5. No 13 is label, made according to requirement
6. For double act actuator, install double act cylinder head, single act actuator needs to be added 2 pieces G1 muffler



PART	P/N	DESCRIPTION	MATERIAL	REMARKS
1	RA-PAR0500 - 1.1	1 Cylinder body	A3	GB70.1-2000 M42X4.5/8
2	RA-PAR0500 - 1.10	2 Side cover adjust screw hexagon screw	A2 -70	GB894.1-1986 115
3	RA-PAR0500 - 1.11	1 Gear circlip	65Mn	M16X65/8.8
4	RA-PAR0500 - 1.12	20 side cover inner hexagon screw	A2 - 700	A-467/481. 46 X 6.99
5	RA-PAR0500 - 1.14	4 Piston O - ring	NBR	A389/506.86X5.34
6	RA-PAR0500 - 1.15	2 Side cover o ring	NBR	EKM 80 X 4
7	RA-PAR0500 - 1.16	2 O - ring on shaft	NBR	EKM 150 X 4
8	RA-PAR0500 - 1.17	2 O- ring under shaft	NBR	C92 41. 2X5.3
9	RA-PAR0500 - 1.18	2 Cylinder cover adjust screw o ring	NBR	Width 15 thick 4.4 wear strip
10	RA-PAR0500-1.19	2 Piston wear ring	PTFE	-
11	RA-PAR0500 - 1.2	2 Cylinder cover	A3	265
12	RA-PAR0500 - 1.20	4 Piston wear plate	PA6	CSB - 11 - 9030
13	RA-PAR0500 - 1.21	1 Oil free bearing on shaft	Carbon based + PTFE	CSB - 11 - 16060
14	RA-PAR0500 - 1.22	1 Oil free bearing under shaft	carbon based + PTFE	-
15	RA-PAR0500 - 1.23	2 Lug	A3	-
16	RA-PAR0500 - 1.24	1 Washer under shaft	PA6	For unit, welding is considerable
17	RA-PAR0500 - 1.26	1 Bracket	ZG230-450	GB894.1 - 1986 - 90
18	RA-PAR0500 - 1.27	1 Elastic circlip on shaft	SS304	240
19	RA-PAR0500 - 1.27.00	1 Indication cover kit		-
20	RA-PAR0500 - 1.27.1	1 Indication cover kit1	PA6	-
21	RA-PAR0500 - 1.27.2	2 Indication cover kit2	PA6	-
22	RA-PAR0500 - 1.27.3	1 Indication cover kit3	PA6	-
23	RA-PAR0500 - 1.27.4	2 Indication cover kit4	PA6	-
24	RA-PAR0500 - 1.28	2 Adjust screw washer	SS304	GB93 - 1987 16
25	RA-PAR0500 - 1.29	24 Side cover elastic washer	65Mn	-
26	RA-PAR0500 - 1.3	2 Piston	45#	GB97.1 - 2002 16
27	RA-PAR0500 - 1.30	24 Side flat pad	A200	GB70.1 - 2000 M16 X 75 / 8.8
28	RA-PAR0500 - 1.31	4 Side cover long inner hexagon screw	A2-70	-
29	RA-PAR0500 - 1.32	2 Inner adjust screw	45#	-
30	RA-PAR0500 - 1.33	2 Inner adjust screw fix sleeve	45#	-
31	RA-PAR0500 - 1.34	2 Fix ring	45#	6 X 2.5
32	RA-PAR0500 - 1.35	2 Adjust screw wear ring	PTFE	C92 37.5 X 3.55
33	RA-PAR0500 - 1.36	4 Inner adjust screw o ring	NBR	-
34	RA-PAR0500 - 1.4	1 Main shaft	45#	GB70.1 - 2000 M6 X 30 /8.8
35	RA-PAR0500 - 1.40	8 Fix ring hexagon screw	Steel	GB93 - 1987 6
36	RA-PAR0500 - 1.41	8 Fix ring elastic washer	65Mn	GB77 - 2000 M20 X 30/8.8
37	RA-PAR0500 - 1.42	2 Location bolt	Steel	GB6170-2000 M20/8
38	RA-PAR0500 - 1.43	16 Bracket hexagon nut	A2 - 70	GB901 - 1988 M20X120/8.8
39	RA-PAR0500 - 1.44	8 Bracket stud	A2 - 70	GB97.1 - 2002 20
40	RA-PAR0500 - 1.45	16 Bracket flat pad	A200	GB93 - 1987 20
41	RA-PAR0500 - 1.46	16 Bracket elastic washer	65Mn	Spring/ bolt /nut procured /
42	RA-PAR0500 - 1.47	8 Spring kit	As per components draw	spring seat
43	RA-PAR0500 - 1.5	1 Gear	45#	-
44	RA-PAR0500 - 1.6	1 Gasket in the shaft	PA6	-
45	RA-PAR0500 - 1.7	1 Gasket on the shaft	Pa6	-
46	RA-PAR0500 - 1.8	1 Gear gasket	45#	-
47	RA-PAR0500 - 1.9	2 Side cover adjust screw	Steel	-

RECOMMENDED SPARE PARTS				
ITEM	PART NUMBER	PARTS	MATERIALS	QTY
3		SPRL Wound Gasket	RPTFE	1
8		Seat	RPTFE	1
15		V - Packing	RPTFE	1
17		O - Ring	FPM	1
FOR THE ACTUATOR				
33	RA-PAR0500-2090-1.36	BOTTOM BEARING	PTFE	1
9	RA-PAR0500-2090-1.18	O-Ring (Pinion Bottom)	NBR	1
7	RA-PAR0500-2090-1.16	O-Ring (Pinion Top)	NBR	1
8	RA-PAR0500-2090-1.17	Bearing, back piston	PTFE	2
6	RA-PAR0500-2090-1.15	Bearing,	PTFE	2
5	RA-PAR0500-2090-1.14	O-Ring (Piston)	NBR	2
32	RA-PAR0500-2090-1.35	O-Ring(End cap)	NBR	2
10	RA-PAR0500-2090-1.19	O-Ring(Side Cap)	NBR	2

Pneumatic actuator test report

RP/JL-4.4-08a

NO. :2014020

Production Type No.	13101103	Model No.	500SR
Angle Rotation	90° ± 3°	Quantity	6
Working Pressure	4 bar	Air Supply Max	8 bar
Testing basis	JB/T8864-2004		
Calibration records			
Test items	Technical Requirements	Inspection results	Single judge
Sealing test	P: 1.1PN=0.6 Mpa	0.66 Mpa	Qualified
	ts >3Min	4 Min	
	Back pressure side: leakage≤33 cm³/min	20 cm3/min	
	Cover of the output shaft: disclosure≤12 cm3/min	8 cm3/min	
Load test	Actions will be flexible, permanent deformation and other various parts are not allowed	Meet the requirements	Qualified
Surface quality and appearance	Cylinder end caps, end flange on the box may not have scratches, cut marks , holes, burrs, etc. . Pneumatics painted outer surface layer or chemical treatment layer should be flat, smooth , uniform color, no oil, dents and other mechanical damage.	Meet the requirements	Qualified
Conclusions of the examination	This product has been tested and proved to be qualified for delivery in conformity with standard		

Inspector: 李胜利 2014-1-20

Auditor: 

Test Stamp:



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6803 Theall Rd Building B, Houston, Texas. 77066 Phone :+1 (832) 666-5576 www.morrisvalve.com

FACTORY TEST

It. No.	01 & 02	PO 13-714	ON-OFF shutoff Butterfly Valves	S/N: D131101201 - 06					
FINAL INSPECTION									
Test Item	Inspection & test Plan		Reference Document	Acceptance Criteria	Verifying Document	Responsible		Conclusion	
						Manufacture	Customer	Satisfied	Unsatisfied
1	Pre-inspection meeting		FAT Plan						
2	Checking for Order Specifications.		EN593,EN1092, ISO5752	EN593,EN1092, ISO5752	P. Order	Satisfied ✓			
3	Check of Dimensions.		EN593,EN1092, ISO5752	EN593,EN1092, ISO5752	DRAWING	Satisfied ✓			
4	Checking of Surface/Cleanliness		Construction Code	Construction Code	Report & P. Order	Satisfied ✓			
5	Check of Marks		P. Order	P. Order	P. Order	Satisfied ✓			
6	Visual inspection to: Stem. Disc Seat Positioning bushing Stem Bolts Nuts Gaskets Gland Other Fastening Components		EN593 & Constructions Code.	EN593& Constructions Code.	DWG	Satisfied ✓			
						Satisfied ✓			
						Satisfied ✓			
						Satisfied ✓			
						Satisfied ✓			
						Satisfied ✓			
						Satisfied ✓			
						Satisfied ✓			
						Satisfied ✓			
7	Valve Functional Test	Direct Action	Procedure of valve pressure test	Procedure of valve pressure test	P. Order	Satisfied ✓			
8	Consistency of the MTR's		EN12266, EN10204-3.1	EN12266, EN10204-3.1	Report	Satisfied ✓			
9	Instructions for the packing 1. To clean the body valves, so they are "grease free" 2. Wrap the body valves, to avoid contamination with plastic wrapping. 3. To packing in plywood cases and dispatch in Container		Packing Procedure	Packing Procedure	P. Order	Satisfied ✓			



EN 10204 3.1



Signature:



A Tradition of Quality

*Our passion is to develop
solutions for difficult situations in
Industrial Applications, no matter
how large or small the project.*

"Serving the world, one project at a time"

