# SP/DRT-THIEME 

School Sports • Club Sports • Fitness • Therapy
Our team is here for you!



## DEAR CUSTOMERS,

We hope that you enjoy your high-quality balls from Sport-Thieme. With this booklet we aim to provide you with ball tips for making your balls last longer. These tips will also help them to retain full functionality in terms of bounce, flight characteristics and shooting accuracy, for example, for a long time.

Best wishes,


Maximilian Hohe

> Katharia Thie-e-Hohe Katharina Thieme-Hohe

Managing Directors
Sport-Thieme


## CONTENTS

1. Unpacking ..... 4
2. Preparing the pump ..... 4-5
3. Preparing the ball ..... 6
4. Positioning the ball ..... 6
Extra! Fascinated by the ball ..... 7
5. Inflating ..... 8
6. The right pressure ..... 9
7. Inflating ..... 10
Which fitness ball for which size / Ball recommendation ..... 11
Extra! How the ball became round ..... 12-13
8. Looking after balls ..... 14
9. Repairing balls ..... 14-15
10. Storing balls ..... 16-17
11. Special balls ..... 18-19
Which football for which age / Ball recommendation ..... 20
FIFA certifications, ball tests ..... 21
Which futsal for which age? / Ball recommendation ..... 22
Which handball for which age? / Ball recommendation ..... 23
Which basketball for which age? / Ball recommendation ..... 24
Which dodgeball for which age? / Ball recommendation ..... 25
Which volleyball for which age? / Ball recommendation ..... 26
Which beach volleyball for which age? / Ball recommendation ..... 27
Which rugby ball for which age? / Ball recommendation ..... 28
Which American football for which age? / Ball recommendation ..... 29
Which fistball for which age? / Ball recommendation ..... 30
Which prellball for which age? / Ball recommendation ..... 30
Which gymnastics ball for which age? / Ball recommendation ..... 31


## 1. UNPACKING

When balls are supplied deflated, the surface may contain creases. These disappear once the ball has been used for the first time.

## 2. PREPARING THE PUMP

When inflating your sports and exercise balls, please take care to use the correct valve needle or adapter. There are 3 different types:

1. Valve needles for balls with a needle valve, e. g. volleyballs, basketballs, handballs, footballs - Product code 711099906 or 711099922

2. Special valve needles for the Quick Mini Pump (product code 711070200 ) or the Airman electric pump

- Product code 711099919


3. Adapters for balls with a stopper,
e. g. for fitness balls, Redondo balls, etc.
$\triangle$ Product code 711100701
To prevent valve needles from bending or breaking, we recommend using a flexible hose between the pump and the valve needle $\triangle$ Product code 711099850

## i. GOOD TO KNOW!

Our adapters fit all of the pumps and compressors in our range. Why not replace any pumps that use different threads and use our adapters with a standard thread (VG 5.25)? Keep all of your equipment in one place with our handy storage box for pumps and adapters.


## Sport-Thieme Ball Pump with Flexible Hose and Valve Needle <br> $>$ Product code 711099863



## Foot Pump

$>$ Product code 711099401

## 3. PREPARING THE BALL



Before inflating a ball, you should lubricate the valve with valve oil. This prevents the needle from damaging the valve and bladder. Alternatively, you can wet the needle with soap or saliva.

## 4. POSITIONING THE BALL



When inflating a ball, the valve should be at the top so that the bladder hangs freely inside the ball. This is important to allow the bladder to expand evenly inside the ball cover, otherwise the ball could lose its balance. This will cause it to swerve unpredictably in flight and depart from its intended trajectory.

## i．FASCINATED BY THE BALL

People of all ages have been seeking excitement，fun and amusement in ball games for over 3，000 years．In ancient times，ball games areas were set up in palaces specifically for that purpose．Furthermore，in the middle ages traditional ball games were played in＇ball houses＇．
Over the centuries，countless ball games have been invented and their rules refined and adapted to the relevant mentalities．Even when the emphasis on sports came to the fore more and more in the 19th century，the pure joy of playing ball games still remained relevant． Balls have always captivated people and still do so to this day．
Allow yourself to catch the bug too－and discover what a wide range of match，fun，therapy and team sports balls Sport－Thieme can offer you．


## 5. INFLATING



Do not over-inflate the balls. If the pressure is too high, the ball may become oval. The seams on stitched balls may rip. The guarantee will no longer be valid. Gymnastics and exercise balls could expand on one side and become deformed.


## Volcano ,Smart ${ }^{6}$ Ball Inflator

## 6. THE RIGHT PRESSURE

The optimum playing characteristics for a ball are only achieved if the pressure is right. You should therefore check the pressure using a pressure gauge immediately after inflating the ball. The correct pressure can be found on the valve of every Sport-Thieme sports ball.


## Ball Pressure Gauge

## $\triangleright$ Product code 712630700

The following measurements
act as a guide:

| Footballs | $0.7-0.9 \mathrm{Bar}$ | $10-13 \mathrm{PSI}$ |
| :--- | ---: | ---: |
| Light footballs | $0.4-0.7 \mathrm{Bar}$ | $5-10 \mathrm{PSI}$ |
| Futsals | $0.4-0.6 \mathrm{Bar}$ | $5-9 \mathrm{PSI}$ |
| Indoor footballs | $0.6-0.7 \mathrm{Bar}$ | $9-10 \mathrm{PSI}$ |
| Handballs | $0.3-0.5 \mathrm{Bar}$ | $4-7 \mathrm{PSI}$ |
| Basketballs | $0.5-0.6 \mathrm{Bar}$ | $7-9 \mathrm{PSI}$ |
| Volleyballs | $0.2-0.3 \mathrm{Bar}$ | $3-4 \mathrm{PSI}$ |
| Light volleyballs | $0.1-0.2$ Bar | $1.5-3 \mathrm{PSI}$ |
| Beach volleyballs | 0.2 Bar | $2-3 \mathrm{PSI}$ |
| Rugby balls | $0.5-0.7 \mathrm{Bar}$ | $7-10 \mathrm{PSI}$ |
| American footballs | $0.5-0.9 \mathrm{Bar}$ | $7-13 \mathrm{PSI}$ |
| Fistballs | $0.5-0.7 \mathrm{Bar}$ | $7-10 \mathrm{PSI}$ |
| RSG gymnastics balls | $0.1-0.2 \mathrm{Bar}$ | $1.5-3 \mathrm{PSI}$ |

## 7. INFLATING

Large fitness and exercise balls should only be gently inflated to $3 / 4$ of their official maximum size the first time they are inflated.
After 24 hours, you can continue to inflate them to the size indicated. This prevents deformation.


## Pump recommendation

‘Extra' Handpump

Which fitness ball for which size?


## Sport-Thieme Fitness Ball

## Sport-Thieme Ball Base

## i. HOW THE BALL BECAME ROUND

The ball is round - so says one of the most popular football adages. However, early footballs - like the one from the 1903 FA Cup final in England - were not. They were neither round nor flexible. The air-filled pig's bladders covered in a leather hide were more of an oval shape.

Before balls with round, watertight rubber tubes could be manufactured, a solvent for rubber first needed to be invented. This happened towards the end of the 19th century. However, even then balls were still not round. There was still an unpleasant 'bump' at the spot where the ball needed to be tied due to the lack of an air valve. This caused nasty injuries when heading the ball.

The first untied ball in the 1920s was a minor sensation. It was celebrated as a major accomplishment in advertisements. But these leather balls still would not meet the requirements of the modern game either. When it rained, they became saturated with water and became heavier and heavier with every minute of the game.

Only the seal of quality introduced by FIFA in 1970 ensured a minimum standard with regards to the quality and characteristics of a football. Official balls are no longer made of leather, but of synthetic materials instead. The synthetic materials used are sealed and do not absorb any water. And that's right: the ball is now round, too! It is of course tested in the laboratory and its flight characteristics are put to the test in a wind tunnel.

This quality is essential! After all, there is no other piece of sports equipment that is knocked around and kicked as much as a football! That's why at Sport-Thieme, you'll only find footballs that can withstand this kind of use - branded balls of extraordinarily high quality.


# Sport-Thieme <br> 'CoreX Pro' Football 

## 8. LOOKING AFTER BALLS

Balls with a coating should only be cleaned using clear water. If the balls are particularly dirty, use lukewarm, mild soapy water. Never treat the balls with leather grease, leather spray or other greasy substances, as the oil damages the coating.

## 9. REPAIRING BALLS

If a ball loses air, often only the needle valve is faulty. The valves on basketballs, volleyballs and small exercise balls are easy to replace. To change a faulty needle valve, pull it out using the valve extractor from the ball repair kit (product code 111507108 ). Push the new valve straight into the ball using the valve inserter. Accidentally pushing a valve through the outer shell into the ball will not cause any damage; you will just hear a slight rattling noise.


## USEFUL ACCESSORIES / REPAIR MATERIALS

## Ball Repair Tool

$\triangleright$ Product code 711507108

Replacement Adapters $\quad \perp$ Product code 711100714
Replacement Valves for Basketballs
$\triangleright$ Product code 711509801

Replacement Valves for Volleyballs
$\triangle$ Product code 711509902
Togu Lip Valves, Set of 3
Product code 711510108

Replacement Stoppers for Gymnic Balls
$\triangleright$ Product code 711509700

Replacement Stoppers for Pezzi Balls

Product code 711509713

Replacement Stoppers for Over Balls
$\triangleright$ Product code 711509726

Replacement Bladder for Kin-Ball

- Product code 712543303


## 10. STORING BALLS

Store balls in cool, dry, well-ventilated areas (approx. $15^{\circ} \mathrm{C}$ ), ideally with their playing pressure reduced by approx. $50 \%$. Only store balls when dry. Wet or damp balls should not be placed in the immediate vicinity of heat sources to dry them out.
Well-ventilated ball storage cupboards and ball trolleys allow residual moisture to dry off more easily. For this reason, do not use boxes or cupboards that are completely closed due to the risk of mould stains.



> Ball Cabinet, H×W×D $195 \times 120 \times 50 \mathrm{~cm}$, with Perforated Metal Double Doors (type 3) $>$ Product code 711733802

## Sport-Thieme Mobile Exercise Ball Stand

$\triangleright$ Product code 711069929

## 11. SPECIAL BALLS



Sport-Thieme 'Core Xtreme' Street Football
An extremely robust ball for tarmac $\triangleright$ Product code 712656003

## Uhlsport Reflex Ball

Bounces in unexpected directions
$\triangleright$ Product code 712650210

Kempa 'Dune' Beach Handball
A handball for the beach and park $\quad>$ Product code 712544407

Sport-Thieme 'Jumbo' Volleyball
XL, light \& flies at reduced speed $\quad \triangleright$ Product code 712651112

## Sport-Thieme 'Softi Night' Skin Ball

Glows in the dark
$\triangleright$ Product code 712693109


## Togu Redondo Ball

The most well-known exercise ball
$\triangleright$ Product code 711760037

## Sport-Thieme Soft Massage Ball

With soft or hard pimples
$\triangleright$ Product code 712648431

## Emoji Balls

12 balls with 3 motifs
$\triangleright$ Product code 712708124

## Sport-Thieme 'Official' Water Polo Ball

$\triangleright$ Product code 712816005

## Football for the Blind

## i. WHICH BALL FOR WHICH AGE?

## FOOTBALL

Which football for which age?

| Category | Age group | Size | Weight ing | Circumference in cm | Diameter in cm | Pressure in bar |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Minis/ <br> Youth G | U7 | 3 | 280-300 | 60-62 | approx. $19$ | 0.5-0.7 |
| Youth F | U8 / U9 | $3 / 4$ | 280-310 | 60-66 | 19-21 | 0.5-0.8 |
| Youth E | U10 / U11 | 4 | 350-370 | 64-66 | 21 | 0.6-0.8 |
| Youth D | U12 / U13 | 4 / 5 | 350-370 | 66-70 | 21-22 | 0.6-0.9 |
| $\begin{aligned} & \text { Youth } \\ & A / B / C \end{aligned}$ | U14-U19 | 5 | 420-440 | 68-70 | ${ }_{22}^{\text {approx. }}$ | 0.7-0.9 |
| Men/ Women |  | 5 | 420-440 | 68-70 | $\begin{aligned} & \text { approx. } \\ & 22 \mathrm{~cm} \end{aligned}$ | 0.7-0.9 |



## Ball recommendation

## i．FIFA CERTIFICATIONS

The IMS（International Match Standard）logo is given to footballs that are manufactured to the FIFA standard product speciications．When playing FIFA matches，only balls that have at least the FIFA Quality or the IMS seal of approval may be used．
FIFA Quality is given to footballs that have successfully passed the first 6 tests regarding weight，volume，pressure loss，roundness，water absorp－ tion and bounce．

FIFA Quality Pro represents the highest quality standard．For this，foot－ balls must pass all the tests in a rigorous test procedure．In addition，the football is tested for size and dimensional stability．

## i．BALLTESTS

Sport－Thieme footballs are tested regularly and they have proven themselves well．


## FUTSAL

Futsal has asserted itself all over the world as the official version of indoor football. At size 4, the special balls are smaller than regular footballs. Their bounce is considerably reduced, meaning they do not bounce off the pitch as easily and they sit closer to your foot. A good and fair playing technique is therefore required when playing futsal, and is optimally trained with futsal balls.

## Which futsal for which age?

| Category | Age group | Years | Size | Weight in g | Circumference in cm | Pressure in bar |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bambini, Youth F/G | U7-U9 | 3-8 | 3 | 290-310 | 57-58 | 0.5-0.7 |
| Youth F/E | U8-U11 | 7-10 | 3 | 290-310 | 57-58 | 0.5-0.7 |
| Youth D | U12-U13 | 11-12 | 4 | 340-360 | 62-64 | 0.5-0.7 |
| Youth A/B/C | U14+ | 13+ | 4 | 400-440 | 62-64 | 0.6-0.9 |
| Men/Women |  |  | 4 | 400-440 | 62-64 | 0.6-0.9 |

## Ball recommendation

|  | Years | Size | Weight in g |
| :--- | :---: | :---: | :---: |
| 'CoreX Pro' Futsal Ball | $12+$ | 4 | 400 |
| 'CoreX Kids' Futsal Ball | U12 | 4 | 350 |

## Sport-Thieme 'CoreX Pro' Futsal Ball <br> - Product code 712652001

## Sport-Thieme 'CoreX Kids' Futsal Ball <br> $\triangleright$ Product code 712651923

## HANDBALL

Which handball for which age?

| Category | Age <br> group <br> under 8 | Size | 00 | Weight <br> in g <br> Mini | Circumference <br> in cm |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Junior/ Youth E | $8-10$ | 0 | $44-46$ | Diameter <br> in cm <br> approx. |  |
| Boys Youth D | $10-12$ | 1 | $255-280$ | $46-48$ | approx. <br> 15 |
| Girls Youth D-C | $10-14$ |  |  | $49-51$ | approx. |
| Boys Youth C-B <br> Girls Youth B-A | $12-16$ <br> $14-18$ <br> Women | 2 | $300-325$ | $51-53$ | approx. |
| $18+$ <br> Boys Youth A <br> Men | $16-18$ <br> 18+ | 3 | $400-425$ | $55-57$ | approx. <br> 18 |



Ball recommendation
Sport-Thieme 'Grippy' Handball
$\triangleright$ Product code 712910909

## BASKETBALL

Which basketball for which age?

| Category | $\begin{gathered} \text { Age } \\ \text { group } \end{gathered}$ | Years | Size | Weight in g | Circumference in cm | Diameter in cm | Pressure in bar |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mini / Bambini |  | under 6 | 3 | 300-330 | 56-58 | 17.8-18.4 | 0.49-0.63 |
| Junior | U8 | 6-9 | 4 | 280-300 | 65-67 | 20.7-21.2 | 0.49-0.63 |
| Boys | U10 | 8-9 | 5 | 370-410 | 69-71 | 21.9-22.6 | 0.49-0.63 |
| Boys | U12 | 10-11 | 5 | 470-500 | 69-71 | 21.9-22.6 | 0.49-0.63 |
| Girls | $\begin{aligned} & \text { U11- } \\ & \text { U13 } \end{aligned}$ | 10-12 | 5 | 470-500 | 69-71 | 21.9-22.6 | 0.49-0.63 |
| Boys | U14 | 12-13 | 6 | -56 | -74 | 3.0-23.4 | 0.63 |
| Girls | $\begin{aligned} & \text { U15- } \\ & \text { U20 } \end{aligned}$ | 13-19 | 6 | 510-567 | 72-74 | 23.0-23.4 | 0.49-0.63 |
| Women |  | 19+ | 6 | 510-567 | 72-74 | 23.0-23.4 | 0.49-0.63 |
| Boys | $\begin{aligned} & \text { U16- } \\ & \text { U20 } \end{aligned}$ | 14-19 | 7 | 570-650 | 75-78 | 23.8-24.8 | 0.49-0.63 |
| Men |  | 19+ | 7 | 570-650 | 75-78 | 23.8-24.8 | 0.49-0.63 |

## Ball recommendation

## Sport-Thieme 'Pro' Basketball $\triangleright$ Product code 712970309

## DODGEBALL

## Which dodgeball for which age?

| Category | Age <br> group | Size | Weight <br> in | Circumference <br> in $\mathbf{c m}$ | Diameter <br> in $\mathbf{~ c m}$ | Pressure <br> in bar |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Junior | under 14 | 5 | $290-300$ | $62-68$ | approx. | $0.55-0.70$ |
| Men/ <br> Women | $14+$ | 5 | $350-380$ | $62-69$ | approx. <br>  <br> Wom | $0.55-0.70$ |

Ball recommendation

## VOLLEYBALL

## Which volleyball for which age?

| Category | Age <br> group | Size | Weight <br> in $\mathbf{g}$ | Circumference <br> in $\mathbf{c m}$ | Diameter <br> in $\mathbf{c m}$ | Pressure <br> in bar |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| All | All | 5 | $260-280$ | $65-67$ | approx. <br> 21 | $0.17-0.22$ |



## Ball recommendation

## Sport-Thieme 'Magic' Volleyball

- Product code 711082513


## BEACH VOLLEYBALL

## Which beach volleyball for which age?

| Category | Age <br> group | Size | Weight <br> in g | Circumference <br> in cm | Diameter <br> in cm | Pressure <br> in bar |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Junior | under 12 | 5 | $170-210$ | $65-67$ | approx. <br> 21 | $0.29-0.32$ |
| Men/ <br> Women | $12+$ | 5 | $260-280$ | $65-67$ | approx. <br> 21 | $0.29-0.32$ |



Ball recommendation

> Sport-Thieme 'Beach Pro’ Beach Volleyball $$
\quad \text { Product code } 712862503
$$

## RUGBY

## Which rugby ball for which age?

| Category | Age <br> group | Size | Weight <br> in g | Circumference <br> in cm | Diameter <br> in cm | Pressure <br> in bar |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Youth G <br> under 8 | 3 | approx. <br> 340 | approx. 25 | approx. <br> 16.5 | $0.55-0.69$ |  |
| Junior | $8-13$ | 4 | approx. <br> 370 | approx. 27 | approx. <br> 17 | $0.55-0.69$ |
| Men/ <br> Women | $14+$ | 5 | approx. <br> 440 | approx. 29 | approx. <br> 17.5 | $0.55-0.69$ |



## Ball recommendation

## Sport-Thieme 'Training’ Rugby Ball

- Product code 712611701


## Sport-Thieme 'Match' Rugby Ball <br> $\triangleright$ Product code 712611600

## AMERICAN FOOTBALL

## Which football for which age?

| Category | Age <br> group | Size | Weight <br> in g | Circumference <br> in cm | Diameter <br> in $\mathbf{c m}$ | Pressure <br> in bar |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Junior <br> under 12 | 6 | approx. <br> 330 | approx. 26 | approx. <br> 15 | $0.8-0.9$ |  |
| Youth | $13-15$ | 7 | approx. <br> 360 | approx. 27 | approx. <br> 16 | $0.8-0.9$ |
| Official | $16+$ | 9 | approx. <br> (10 | approx. 28 | approx. <br> 17 | $0.8-0.9$ |



Ball recommendation

> Sport-Thieme 'American' American Football $$
\quad \text { Product code } 712714426
$$

## FISTBALL

## Which fistball for which age?

| Category | Age <br> group <br> to 10 | Size | Weight <br> in g | Circumference <br> in cm | Diameter <br> in cm | Pressure <br> in bar |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  <br> Minis | 260-290 | $65-68$ | approx. <br> 21 | $0.55-0.75$ |  |  |
| Women/ <br> Youth | $10-14$ | 5 | $320-340$ | $65-68$ | approx. <br> 21 | $0.55-0.75$ |
| Men | $14+$ | 5 | $350-370$ | $65-68$ | approx. <br> 21 | $0.55-0.75$ |

## Ball recommendation

## Drohnn 'New Generation' Fistball $\triangle$ Product code 711070369

## PRELLBALL

## Which prellball for which age?

| Age <br> Category <br> group |  |  |  | Size | Weight <br> in g | Circumference <br> in cm |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Youth | $11-14$ | 5 | $260-300$ | $65-68$ | approx. 21 | $0.55-0.75$ |
| Men/ <br> Domen | $14+$ | 5 | $350-380$ | $65-68$ | approx. 21 | $0.55-0.75$ |
| in bar |  |  |  |  |  |  |

## Ball recommendation

## GYMNASTICS BALLS

Which gymnastics ball for which age?

| Category | Age <br> group <br> Children | $4-10$ | 3 | Size | Weight <br> in $\mathbf{~ g}$ | Circumference <br> in $\mathbf{c m}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Competition | All | 300 | 60 | Diameter <br> in $\mathbf{c m}$ <br> approx. <br> 19 | Pressure <br> in bar |  |
| Co.2-0.3 |  |  |  |  |  |  |



Ball recommendation

# Togu '420' FIG-Certified Gymnastics Ball <br> $\triangleright$ Product code 712642156 

# SPORT-THIEME ONLINE-SHOP 

sport-thieme.com


Thieme ontine shop

soos Aupt MECD mions
Now Ame rame

