# DATA SHEET

## Threaded Tank and Silo Ball Valves

PROKOSCH Model 430

PROKOSCH ball valves are suitable for use with granulated, pulverized media as well as neutral liquids, suspensions and gases. They are characterised by the use of fewer individual parts, space-saving elements as well as easy operation and a long service life.

The full bore trunnion mounted ball reduces flow resistance and wear to the ball and seats to a minimum and provides a low switching torque over the entire pressure range.

Thanks to their modular design, PROKOSCH ball valves are easy to configure and our standard designs and options have been proven in a wide range of applications. Since the ball valve does not have any ignition source, it can also be configured for safe use in various ATEX applications.

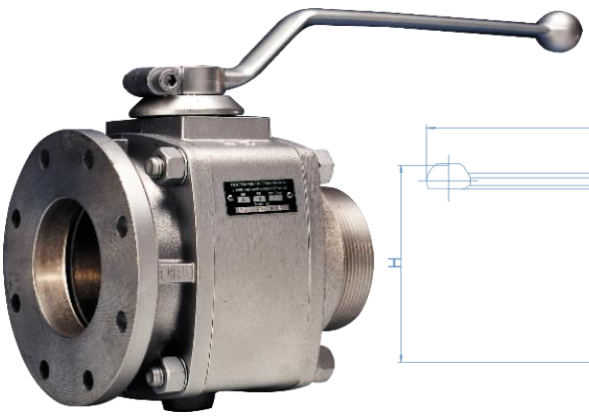
| Specifications | |
|---|---|
| Pressure rating | PN10, optionally PN16 |
| Nominal diameter | DN50...DN100 |
| Min. Temperature[1)] | -15°C / -20°C / -40°C |
| Max. Temperature[2), 3)] | +80°C / +180°C / 230°C |
| Upstream connection | TW-Flange DIN 28460 |
| Downstream conneciton | External Thread DIN ISO 259[8)] |

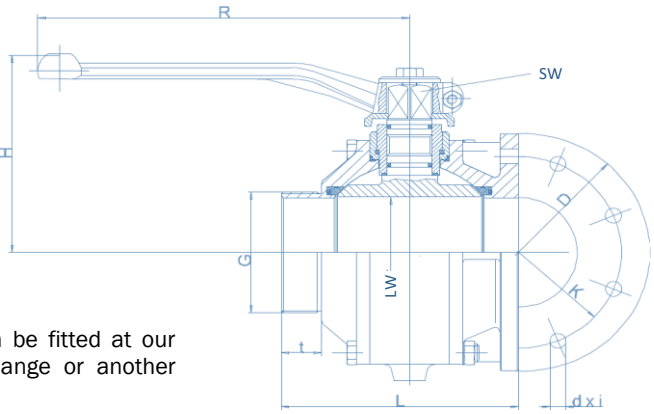
| Material Selection | |
|---|---|
| Body | cast iron (primed) / aluminium / stainless-steel |
| Ball | cast iron[5)] / aluminium / stainless-steel |
| Seats | PTFE / E-PTFE / UHMWPE / stainless-steel |
| O-Rings | NBR / FKM / Silicone (FEP coated) |

| Seat Selection | Recommended Application |
|---|---|
| PROKOSCH PTFE O-Ring tensioned | solids, suspensions and liquids |
| PROKOSCH UHMWPE O-Ring tensioned | more abrasive solids and suspensions |
| PROKOSCH Metall-O-Ring tensioned | abrasive and adhesive solids, media tight |
| PROKOSCH special casing | gases and liquids, reinforced for high flow rates |
| PROKOSCH non-clogging[4)] | seated upstream with open downstream, media tight |

**Dimensions** — Weights (kg) by MK

| | *DN* | *PN* | *LW* | *L* | *D* | *K* | *d* | *i* | *t* | *G* | *H* | *R* | *SW* | *5* | *3,4* | *8,9* | *Rest* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ☐ | 50 (2") | 16 | 50 | 140 | 154 | 130 | 11,5 | 8 | *20* | 2" | 130 | 250 | 17 | 2,9 | 3,7 | 3,9 | 6,7 |
| ☐ | 65 (2½") | 16 | 64 | 158 | 154 | 130 | 11,5 | 8 | *20* | 2½" | 140 | 270 | 19 | - | 6,0 | 6,4 | 9,9 |
| ☐ | 80 (3") | 16 | 78 | 160 | 154 | 130 | 11,5 | 8 | *24* | 3" | 150 | 270 | 19 | - | 7,3 | 7,9 | 12,5 |
| ☐ | 100 (4") | 16 | 97 | 195 | 174 | 150 | 14 | 8 | *25* | 4" | 175 | 330 | 27 | - | 13,3 | 14,2 | 22,3 |






Upon request, the threaded end can be fitted at our factory with a coupling, a special flange or another component, e.g. sight glass.

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Product configuration - most applications are covered by our standard designs. The standard design can be supplemented with a selection of options to suit the application. In addition, we can offer customised special designs for more demanding requirements.

All ball valves are manufactured in our factory in Germany. Our employees and our ISO9001 certified quality management system - a thorough system of controls and verifications from the raw materials supply through material receipt until to final inspection - ensure the high and consistent quality of our products. Furthermore, factory certificates according to EN 10204 2.2 and 3.1 are available on request.

| **Design** | | | | Code | |
|---|---|---|---|---|---|
| *Housing* | *Ball* | *Seat/O-Rings* | *Seat Type* | *MK* | |
| Cast iron | Cast iron[5)] | PTFE/FKM | Special casing | 1 | ○ |
| Cast iron | Cast iron[5)] | PTFE/NBR | O-Ring tensioned | 2 | ○ |
| Aluminium | Cast iron[5)] | PTFE/FKM | Special casing | 3 | ○ |
| Aluminium | Cast iron[5)] | PTFE/NBR | O-Ring tensioned | 4 | ○ |
| Aluminium | Aluminium[6)] | PTFE/NBR | O-Ring tensioned | 5 | ○ |
| Cast iron | Stainless-st. | PTFE/FKM | Special casing | 6 | ○ |
| Cast iron | Stainless-st. | PTFE/NBR | O-Ring tensioned | 7 | ○ |
| Aluminium | Stainless-st. | PTFE/FKM | Special casing | 8 | ○ |
| Aluminium | Stainless-st. | PTFE/NBR | O-Ring tensioned | 9 | ○ |
| Cast iron | Stainless-st.[7)] | Stainless-st.[7)] | Metal O-Ring tensioned | 10 | ○ |

| **Top Mounting** | Code | |
|---|---|---|
| Standard, with stop washer and hand lever | - | ○ |
| Bare shaft, with stop washer | /OH | ○ |
| Bare shagt with top flange prepared for actuator adaptation | /SO | ○ |

| **Options** | Code | |
|---|---|---|
| Anti clogging design, seated only upstream with aerodynymic open downstream | /FA | ☐ |
| Flushing port, a 1/2" threaded hole for flushing on one side of the ball valve | /SB | ☐ |
| Anti-static-device, enabling the dissipation and inhibition of electrostatic buildup | /AS | ☐ |
| Lock-out-device, a valve can be locked in place by a mechanical locking device | /LO | ☐ |
| E-PTFE seats, for increased conductivity for anti-static applications | (E-PTFE) | ☐ |
| UHMWPE seats, alternative to PTFE seats for increased wear resistance | (UHMWPE) | ☐ |
| FKM o-rings, alternative to NBR o-rings of a standard design | -FKM | ☐ |
| FEP o-rings, alternative to the o-rings of a standard design | -FEP | ☐ |
| Protective coating in addition to priming the cast iron bodied valves | -RAL# | ☐ |
| Tested and rated for PN16 operating pressure | -PN16 | ☐ |
| Optional connection or extention on pipe end side[8)] | ***<connection or extention> | ☐ |

*Note: ○ single selection, ☐ multiple selection*

*Order Code: <Model>/<Nominal Diameter>/<Design> <Top Mounting> <Options>*
*Examples: **430/65/4***Storz B**, or **420/100/9-FKM-PN16***

*1) NBR O-Rings -20°C, FKM O-Rings -15°C, Low temperature application -40°C with Silicone(FEP) O-Rings; 2) Higher temperature range +180°C with PTFE Seats and FKM O-Rings; 3) High temperature applications 230°C only with stainless-steel seats and FKM O-Rings; 4) The /FA anti-clogging design is available for all O-Ring tensioned seat types; 5) hard chrome plated and polished; 6) Aluminium balls available for DN40 and DN50 other sizes upon request; 7) borated for increased wear resistance, the seats are fitted with FKM O-Rings*

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