

# DATA SHEET

## Flanged Ball Valves with Injectors

### PROKOSCH Model 470



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	DN80, DN100
Min. Temperature <sup>1)</sup>	-15 °C / -20 °C / -40 °C
Max. Temperature <sup>2), 3)</sup>	+80 °C / +180 °C / 230 °C
Upstream connection	TW-Flange DIN 28460
Downstream connecton	External Thread DIN ISO 259 <sup>8)</sup>

#### Material Selection

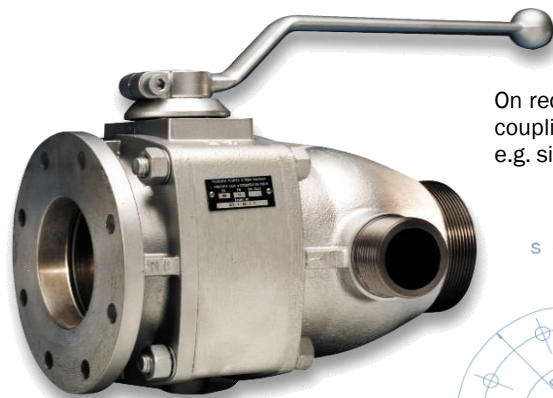
Body <sup>6)</sup>	cast iron (primed) / aluminium / stainless-steel
Ball	cast iron <sup>5)</sup> / aluminium / stainless-steel
Seats	PTFE / E-PTFE / UHMWPE / stainless-steel
O-Rings	NBR / FKM / Silicone (FEP coated)

#### Seat Selection

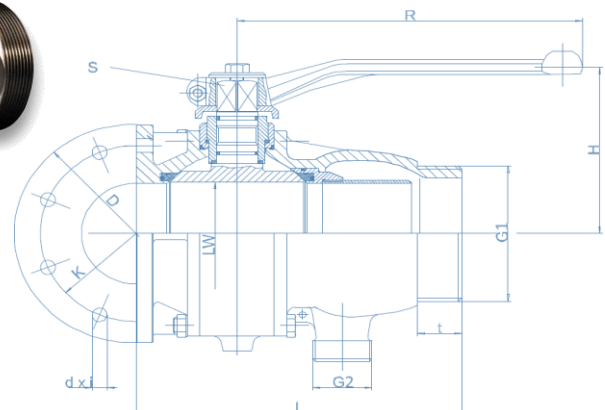
Seat Selection	Recommended Application
PROKOSCH PTFE O-Ring tensioned	solids, suspensions and liquids
PROKOSCH UHMWPE O-Ring tensioned	more abrasive solids and suspensions
PROKOSCH non-clogging <sup>4)</sup>	seated upstream with open downstream, media tight

#### Dimensions

														Weights (kg) by MK		
DN	PN	LW	L	D	K	d	i	t	G1	G2	H	R	SW	4	9	2,7
<input type="checkbox"/> 80 (3")	16	78	245	154	130	11,5	8	24	3"	1½"	150	270	19	11,6	12,3	15,0
<input type="checkbox"/> 100 (4")	16	97	283	174	150	14	8	24	4"	2"	175	330	27	19,5	20,8	26,5



On request, the threaded end can be equipped with a coupling, with a special flange or with a component, e.g. sight glass.



Optionally, the TW flange can be replaced with a DIN flange. Other connection variants on request.

Standard orientation of the discharge air connection in flow direction to the right.



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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.

The 470 series is mainly used for silo trucks and silo loading and unloading stations. The integrated flow accelerator provides an additional boost to the conveying processes to make these as fast and effective as possible.

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	
<i>Housing</i> <sup>6)</sup>	<i>Ball</i>	<i>Seat/O-Rings</i>	<i>Seat Type</i>	<i>MK</i>	
Cast iron	Cast iron <sup>5)</sup>	PTFE/NBR	O-Ring tensioned	2	<input type="radio"/>
Aluminium	Cast iron <sup>5)</sup>	PTFE/NBR	O-Ring tensioned	4	<input type="radio"/>
Cast iron	Stainless-st.	PTFE/NBR	O-Ring tensioned	7	<input type="radio"/>
Aluminium	Stainless-st.	PTFE/NBR	O-Ring tensioned	9	<input type="radio"/>
* The injector flange housing and nozzle are cast iron in all standard designs					
Top Mounting				Code	
Standard, with stop washer and hand lever				-	<input type="radio"/>
Bare shaft, with stop washer				/OH	<input type="radio"/>
Bare shaft with top flange prepared for actuator adaptation				/SO	<input type="radio"/>
Options				Code	
Anti clogging design, seated only upstream with aerodynamic open downstream				/FA	<input type="checkbox"/>
Flushing port, a 1/2" threaded hole for flushing on one side of the ball valve				/SB	<input type="checkbox"/>
Anti-static-device, enabling the dissipation and inhibition of electrostatic buildup				/AS	<input type="checkbox"/>
Lock-out-device, a valve can be locked in place by a mechanical locking device				/LO	<input type="checkbox"/>
E-PTFE Seats, for increased conductivity for anti-static applications				(E-PTFE)	<input type="checkbox"/>
UHMWPE seats, alternative to PTFE seats for increased wear resistance				(UHMWPE)	<input type="checkbox"/>
FKM o-rings, alternative to NBR o-rings of a standard design				-FKM	<input type="checkbox"/>
FEP o-rings, alternative to the o-rings of a standard design				-FEP	<input type="checkbox"/>
Protective coating in addition to priming the cast iron bodied valves				-RAL#	<input type="checkbox"/>
Tested and rated for PN16 operating pressure				-PN16	<input type="checkbox"/>
Optional connection or extension on pipe end side <sup>7)</sup>				***<connection or extension>	<input type="checkbox"/>

Note:  single selection,  multiple selection

Order Code: <Model>/<Nominal Diameter>/<Design> <Top Mounting> <Options>

Examples: 470/80/2/FA\*\*\*STORZ B, oder 470/100/4-DIN

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) The injector flange housing and nozzle are cast iron in all standard designs; 7) Optionally the pipe end connection can be fitted with an injector, coupling or custom flange connection.



**PROKOSCH Pumpen und Armaturen GmbH**

In der Breitwiese 9, DE-76684 Östringen, Germany  
Phone +49 7259 9103 0 - Telefax +49 7259 9103 49  
contact us at [www.prokosch.de](http://www.prokosch.de) - [sales@prokosch.de](mailto:sales@prokosch.de)