DATA SHEET

Internal / External Thread Ball Valves

PROKOSCH Model 460

PROKOSCH ball valves are suitable for use with granulated, pulverized media as well as neutral liquds, 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.

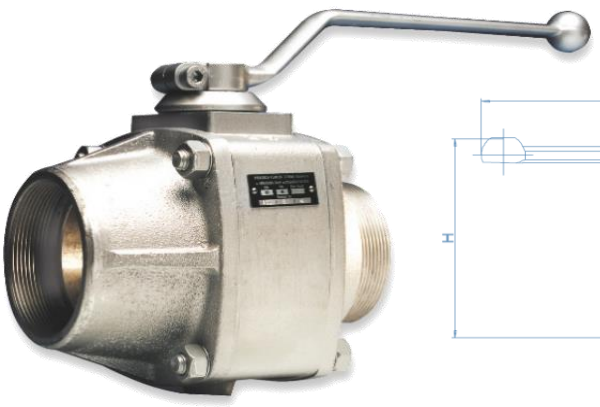
Specifications	
Pressure rating	PN10, optionally PN16
Nominal diameter	DN50...DN100
Min. Temperature[1)]	-15°C / -20°C / -40°C
Max. Temperature[2), 3)]	+80°C / +180°C / 230°C
Upstream connection	Internal Thread DIN ISO 259[8)]
Downstream conneciton	External Thread DIN ISO 259[8)]

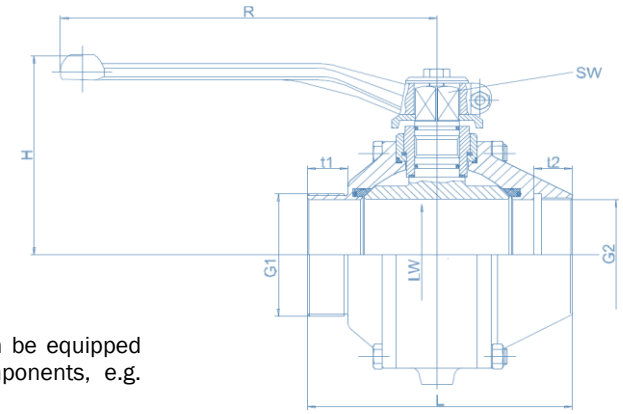
Material Selection	
Body	cast iron (primed) / aluminium / stainless-steel
Ball	cast iron[5)] / aluminium / stainless-steel
Seats	PTFE / E-PTFE / UHMWPE / stainless-steel
O-Rings	NBR / FKM / Silicone (FEP coated)

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*	*t1*	*G1*	-	-	*t2*	*G2*	*H*	*R*	*SW*	*5*	*3,4*	*8,9*	*Rest*
☐	50 (2")	16	50	141	20	2"	-	-	23	2"	130	250	17	2,4	3,2	3,4	5,7
☐	65 (2½")	16	64	160	20	2½"	-	-	25	2½"	140	270	19	-	5,5	6,0	8,8
☐	80 (3")	16	78	187	24	3"	-	-	28	3"	150	270	19	-	7,1	7,7	11,7
☐	100 (4")	16	97	216	25	4"	-	-	30	4"	175	330	27	-	12,7	13,9	22,3





On request, the external thread end can be equipped with couplings, special flanges or components, e.g. with a sight glass or with an injector.

DATA SHEET

Internal / External Thread Ball Valves

PROKOSCH Model 460

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 460 series enables a fixed connection on the internal thread end while the external thread end can be fitted with various components such as sight glasses, ring nozzles, probes and various flanges and couplings.

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 aerodynamic 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 Sitze, 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 male pipe end side[8)]	***<connection or extention>	☐

Note: ○ single selection, ☐ multiple selection

Order Code: <Model>/<Nominal Diamter>/<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; 8) Optionally the male pipe end port can be fitted with components such as an injector or sightglass, or couplings and custom flange connections.

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 - sales@prokosch.de