

# PKH.EN.3M.I

## 11-6e



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Tough pneumatically driven 3-way brass ball valve with L- or T-bore.

#### SIZE

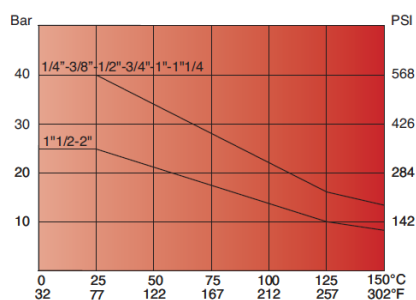
DN15 (1/2") to DN50 (2")

#### CONNECTION

Internal thread UNI EN 10226 (DIN ISO 7/1)  
Mounting flange ISO 5211

#### NOMINAL PRESSURE (Pressure/temperature)

From PN40 (1/2") to PN25 (2")



#### MATERIALS (Ball valve)

Body: Brass CW 617 N UNI EN 12165  
Ball: Brass, hart chrome plated CW 614 N UNI EN 12164  
Ball seal: PTFE, glasfiber  
Stem: Brass, hart chrome plated CW 614 N UNI EN 12164  
Stem seal: PTFE, O-Ring: Elastomer

#### AMBIENT TEMPERATURE (Actuator)

Standard version: From -50°C to +70°C (NBR)  
Special versions: From -15°C to 160°C or  
-30°C to +200°C on request. Temperature range  
ball valve see nominal pressure (Pressure/temperature)

#### FLOW DIRECTION

Random

#### MOUNTING POSITION

See mounting reference for industrial valves.

#### FLOW MEDIUM

Neutral gases and fluids. For aggressive medium see material resistance table. Medium which lead to an increase of operating torque could require other actuator size.

#### OPERATION METHOD (Standard)

Pneumatic actuators, double- or single acting, spring open (NO) or spring closed (NC) version.  
Approvals actuator: SIL 3, GOST, ROS

#### CONTROL MEDIUM

Compressed air or inert gases acc. PNEUROP/ISO class 4, other control medium on request.

#### CONTROL PRESSURE

5,5 bar, other control pressure on request.

#### PNEUMATIC CONTROL

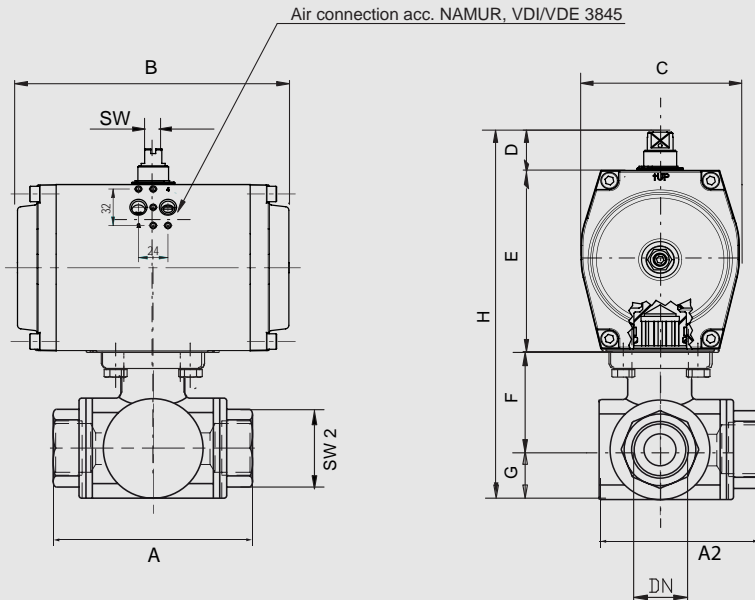
With either direct-mounted (NAMUR) or separate 3/2- or 5/2-way control valve or positioner.

#### OPTIONS AND ACCESSORIES

Limit switch box with mechanical microswitches or inductive sensors.

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


PKH.EN.3M.I	Nominal width [mm]		max. press. [bar] PN	M(1) + 30% [Nm]	Flange	square	Pneumatic actuator	Dimension [mm] and weight [kg]											Order no.	
	DN	Rp						A	A2	B	C	D	E	F	G	H	SW	SW2		weight
double acting L-bore	15	1/2"	40	7,2	F03	9	GTKB.43x90	64,5	61	116	61,5	30	65	38	20	153	10	25	1,00	350.610/1
	20	3/4"	40	8,5	F03	9	GTKB.43x90	76	70	116	61,5	30	65	42	24	161	10	31	1,40	350.611
	25	1"	40	12,5	F03/F04	9	GTKB.43x90	97	85	116	61,5	30	65	46,5	30	171,5	10	41	1,30	350.612
	32	1 1/4"	40	19,5	F04/F05	11	GTKB.52x90	118	99	133	68,5	30	74	61,5	37	202,5	10	55	3,10	350.613
	40	1 1/2"	25	32,5	F04/F05	11	GTKB.63x90	135	114	137	80	30	88	63,5	43	224,5	10	55	4,80	350.614
single acting L-bore	15	1/2"	40	7,2	F03	9	GTKB.52x90.08	64,5	61	133	68,5	30	74	38	20	162	10	25	1,50	350.710
	25	1"	40	12,5	F03/F04	9	GTKB.52x90.09	97	85	133	68,5	30	74	46,5	30	180,5	10	41	2,30	350.712
	40	1 1/2"	25	32,5	F04/F05	11	GTKB.83x90.09	135	114	180	92,5	30	100	63,5	43	236,5	10	55	6,30	350.714
double acting T-bore, basic position T3	15	1/2"	40	7,2	F03	9	GTKB.43x90	64,5	61	116	61,5	30	65	38	20	162	10	25	1,00	350.722-T3
	20	3/4"	40	8,5	F03	9	GTKB.43x90	76	70	116	61,5	30	65	42	24	170	10	31	1,40	350.723-T3
	25	1"	40	12,5	F03/F04	9	GTKB.43x90	97	85	116	61,5	30	65	46,5	30	180,5	10	41	1,30	350.724-T3
	32	1 1/4"	40	19,5	F04/F05	11	GTKB.52x90	118	99	133	68,5	30	74	61,5	37	228,5	10	55	3,10	350.725-T3
	40	1 1/2"	25	32,5	F04/F05	11	GTKB.63x90	135	114	137	80,0	30	88	63,5	43	236,5	10	55	4,80	350.726-T3
	50	2"	25	43,0	F05	14	GTKB.75x90	157	141	161	92,5	30	100	74	56	277	14	67	6,80	350.727-T3

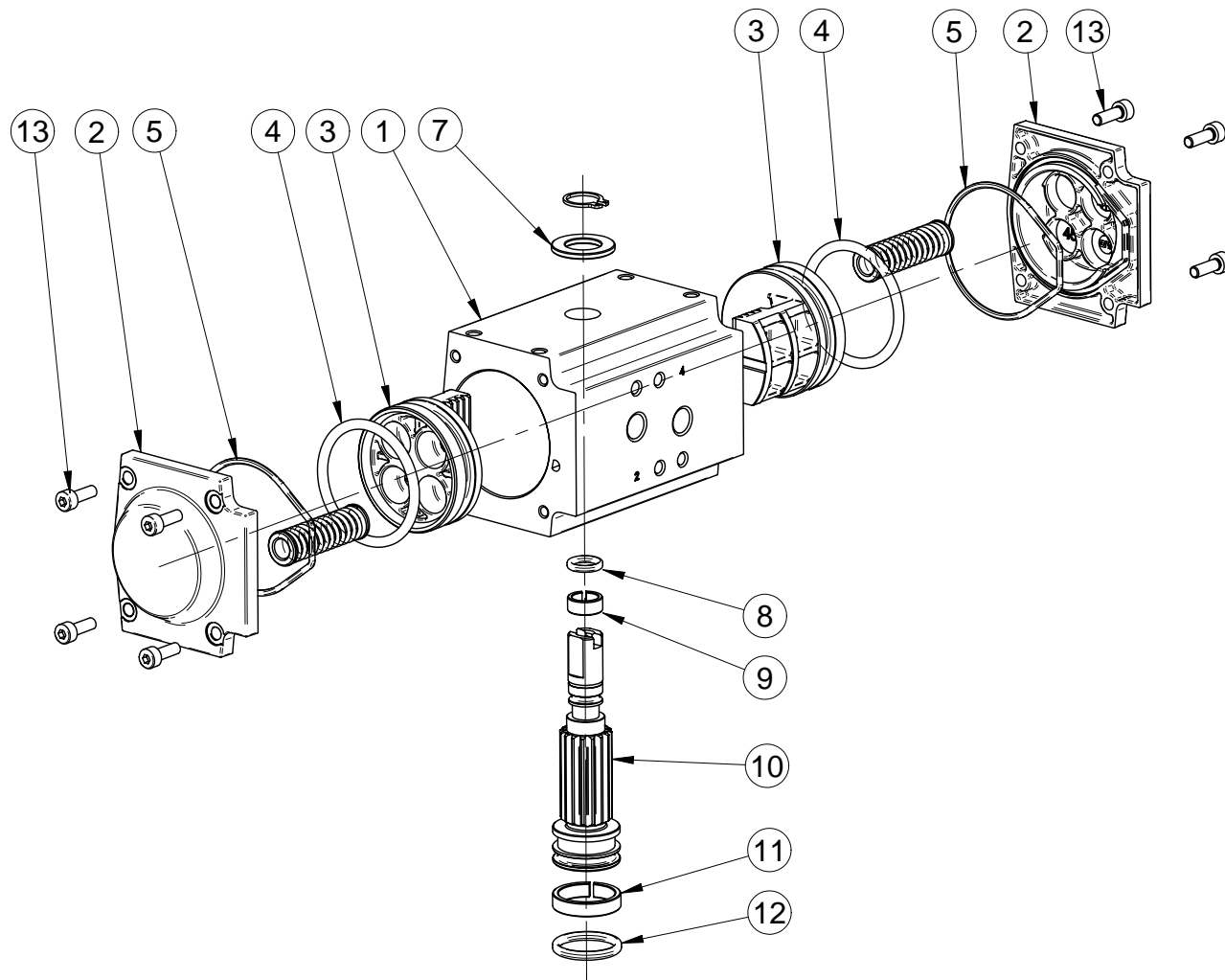
(1) = Max. ball valve torque + 30%.

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Position			
<u>Variants</u>	<u>Normal position 0°</u>	<u>Rotating direction</u>	<u>Valve position 90°</u>
<b>L1</b>			
<b>L2</b>			
<b>T1</b>			
<b>T2</b>			
<b>T3</b>			
<b>T4</b>			
<b>T5</b>			
<b>T6</b>			
<b>T7</b>			
<b>T8</b>			

# Materials - pneumatic actuators type GTK, GTX, GTW



## MATERIAL LIST

type	description	materials
standard version	Body (1)	Extruded aluminium alloy astm 6063 anodized 10681
	End caps (2)	Die-cast aluminium alloy EN AC-46100 UNI EN 1706:1999, color RAL 5015 (blue)
	Piston (3)	Die-cast aluminium alloy EN AC-46100 UNI EN 1706:1999
	O-Ring (5, 8, 12)	NBR 70 SH (Perbunan)
	Guide set (4, 7, 9, 11)	DELIRIN ISO 9988
	Pinion (10)	Steel 11SMNBP37, electroless nickel plated
	Screws (13)	Stainless steel AISI 304
chemical version	Body (1)	Extruded aluminium alloy astm 6063 anodized 10681, hardcoated and teflon
	End caps (2)	Die-cast aluminium alloy EN AC-46100 UNI EN 1706:1999, color RAL 5015 (blue)
	Pistons (3)	Die-cast aluminium alloy EN AC-46100 UNI EN 1706:1999
	O-Ring (5, 8, 12)	NBR 70 SH (Perbunan)
	Guide set (4, 7, 9, 11)	DELIRIN ISO 9988
	Pinion (10)	Stainless steel AISI 304
	Screws (13)	Stainless steel AISI 304