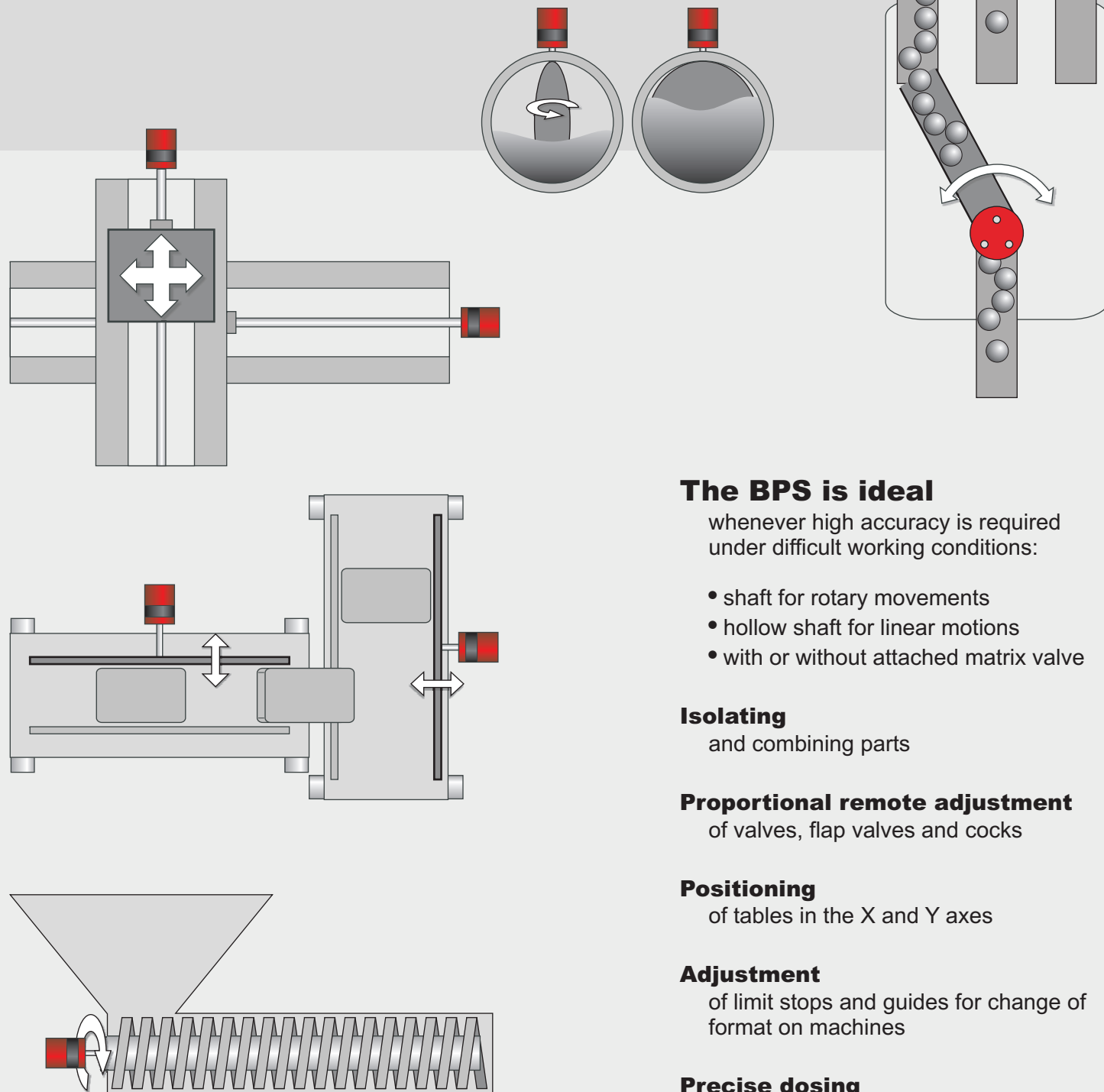


Examples of application



The BPS is ideal

whenever high accuracy is required under difficult working conditions:

- shaft for rotary movements
- hollow shaft for linear motions
- with or without attached matrix valve

Isolating

and combining parts

Proportional remote adjustment

of valves, flap valves and cocks

Positioning

of tables in the X and Y axes

Adjustment

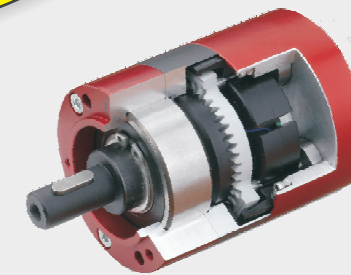
of limit stops and guides for change of format on machines

Precise dosing

of bulk materials with screw-type conveyors

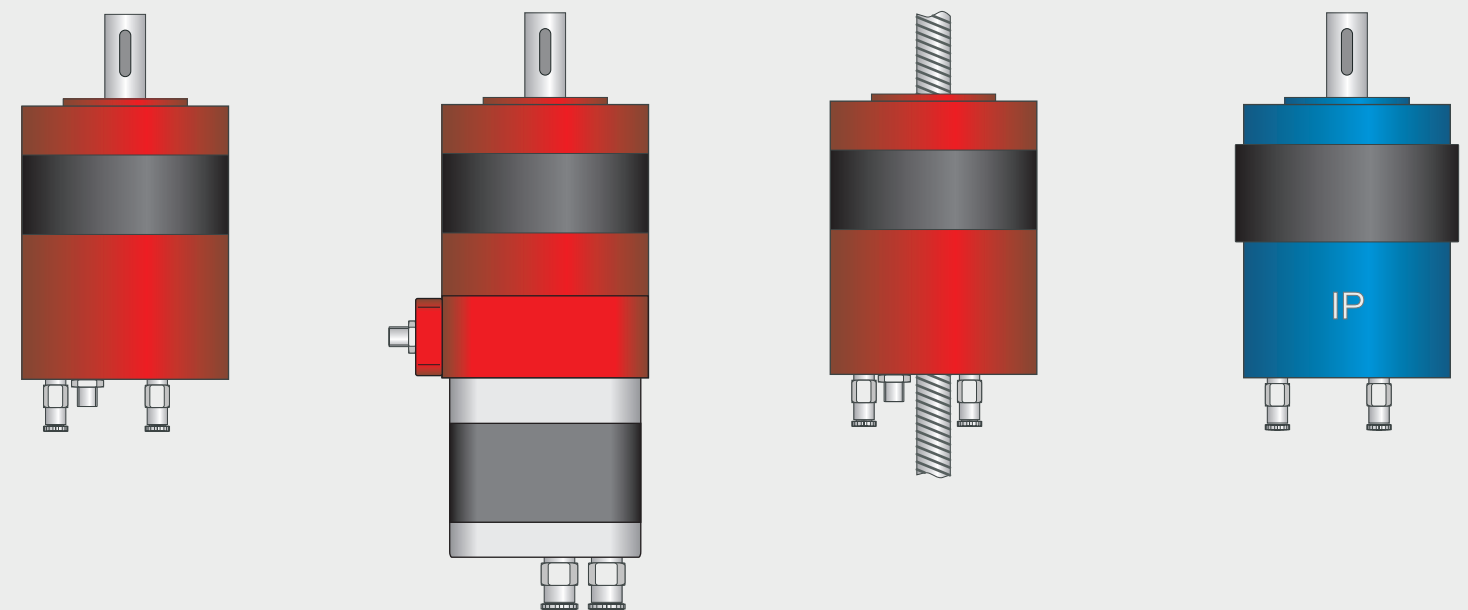
Pneumatic stepping motors

NEW
3 dimensions

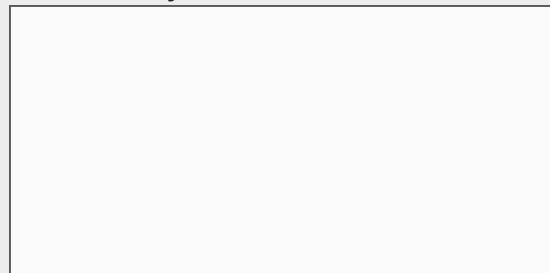


Highly precise rotary movements under extreme operating conditions

Self-locking in the event of power failure



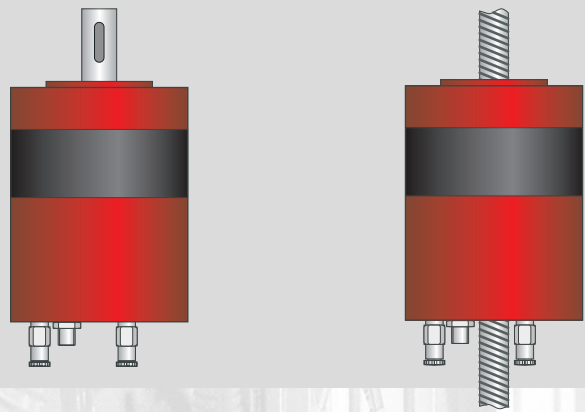
Presented by:



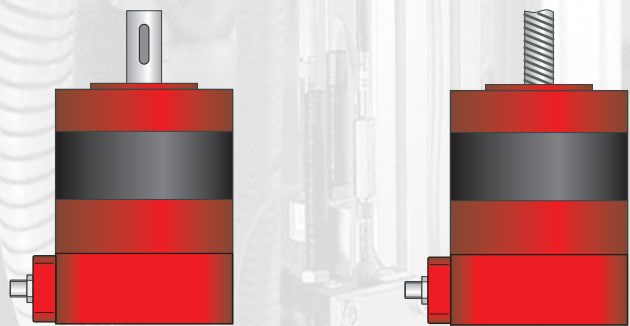
Version 2.0 en 02/2007

Types Description

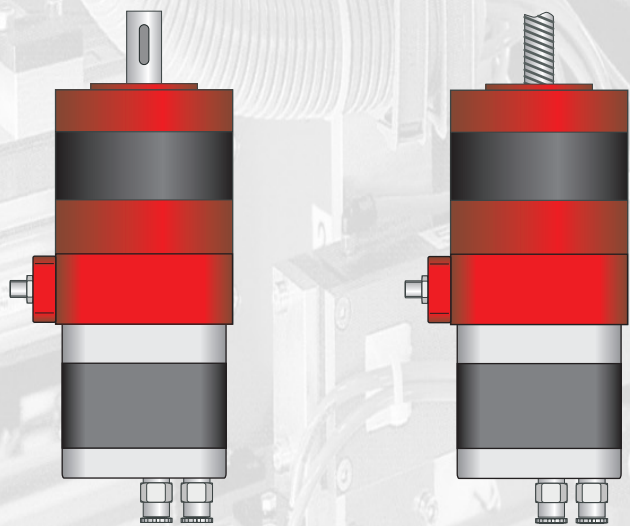
Performance Dimensions



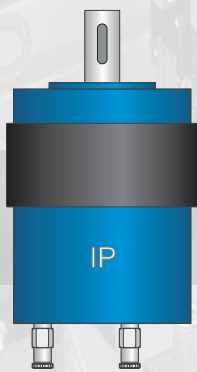
- shaft
- hollow shaft
- linear motion unlimited



- shaft
- prepared for matrix valve
- hollow shaft
- linear motion limited to 50 mm
- prepared for matrix valve



- shaft
- matrix valve attached
- hollow shaft
- linear motion limited to 50 mm
- matrix valve attached



- shaft
- body sealed

The **Type IP** is authorized for Ex-zones 0, 1, 2, 20, 21, 22

Extreme operating conditions

The BPS by Baumgartner reveals its strengths in the presence of dust, dirt or strong magnetic fields: pneumatic actuation permits smooth operation even under the most difficult conditions (operating temperature -25 ° to +70 °C, IP 55).
The BPS only offers limited suitability for direct drive of rotating parts with high mass.

Small but powerful

Even the smallest model series produces a convincing torque of 1.7 Nm with a compact 52 mm diameter.

Self-locking

Even in the event of a power failure, the BPS maintains its position – No step loss occurs. A major advantage for tough applications.

Precision

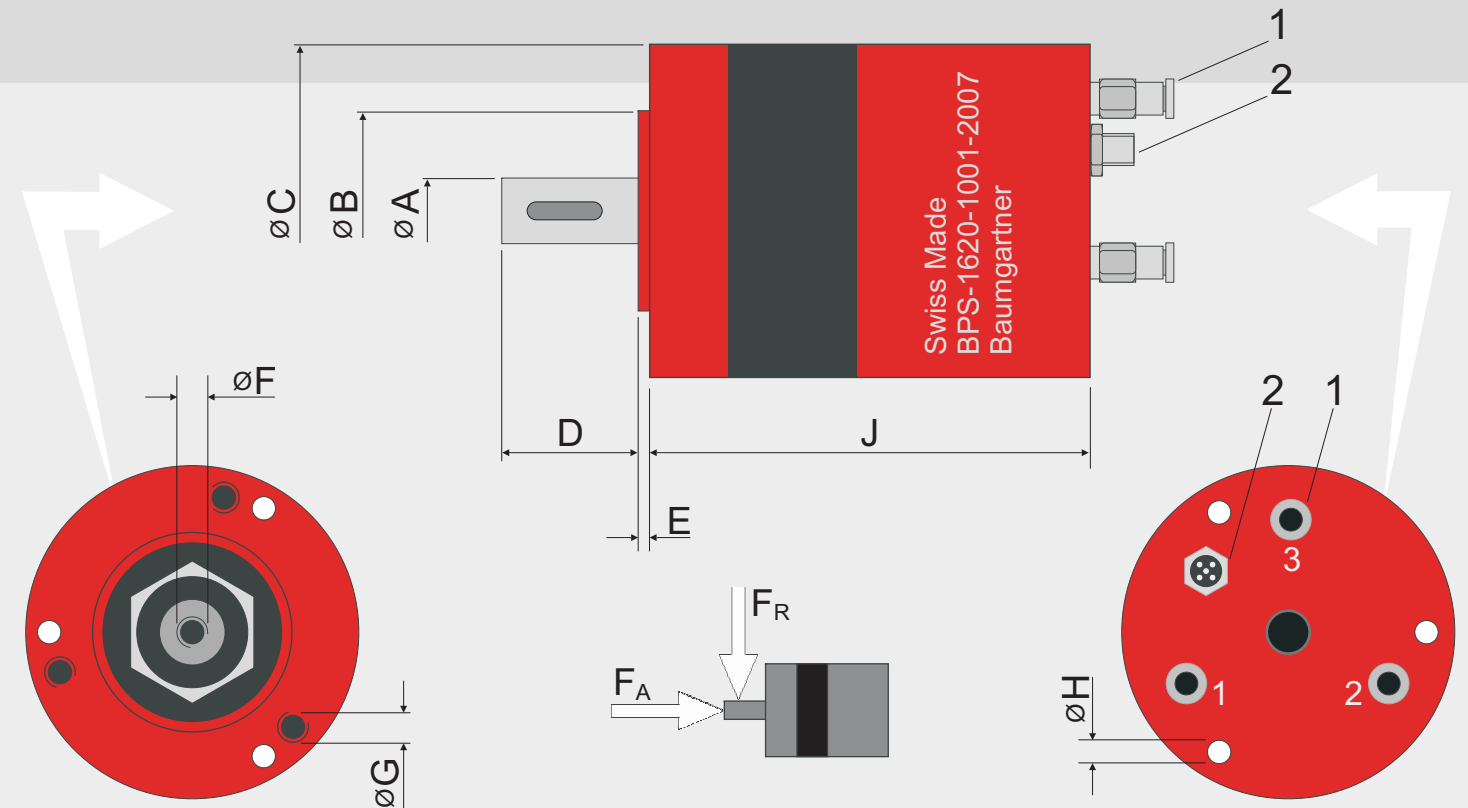
With its unique design, the BPS ensures maximum accuracy. The tolerance amounts to a constant ±9 minutes of angle, regardless of the number of steps!

Easy actuation

Directly via the matrix valve with 3 valves (3/2-way), with or without sensors: the BPS can be incorporated without great complexity into a stored program control. For the "Siemens S7-300" SPC, free program modules are obtainable at www.baumitech.ch.

Sensor unit

All types are available with a sensor unit, reporting the end position of the pistons to a SPC.



Size	1216*	1620	2532*
Hollow shaft possible	no	yes	yes
Step angle (°)	3	3	3
Max. moment of mass inertia ₁ (kgm ²)		0,0042	
Max. torque ₁ (Nm)	1,7	3,3	10,0
Max. speed ₂ (RPM) (1/min)		24 / 7	
ØA (g6, concentricity 0.02 mm)	10	12	19
ØB (h7)	30	40	60
ØC	49 / 52	59 / 61	96 / 99
D	15,5	24,2	37,5
E	1,6	2,5	3,0
ØF	M5	M5	M8
ØG	M4	M4	M6
ØH	3,3	4,5	6,5
J	61,0	72,5	108,5
Pos. 1: pneumatic coupling (3 pieces)	Ø4 / M5	Ø4 / M5	Ø8 / ¼"
Pos. 2: sensor plug	M12 / 5P	M8 / 4P (M12 / 5P)	M12 / 5P
Weight (g)		650	
Max. F _R under radial load only (kN)		1,24	
Max. F _A under axial load only (kN)		1,75	

* Test conditions: 6 bars, hose length 1 m, valve retardation 40 ms

** Test conditions: 6 bars, matrix direct, valve retardation 10 ms, without load / hose length 1 m, valve retardation 40 ms, ²/₃ load

* BPS-1216 / 2532 available on August 2007

The specific data for all types are available in PDF format at www.baumitech.ch or directly from Baumgartner AG.