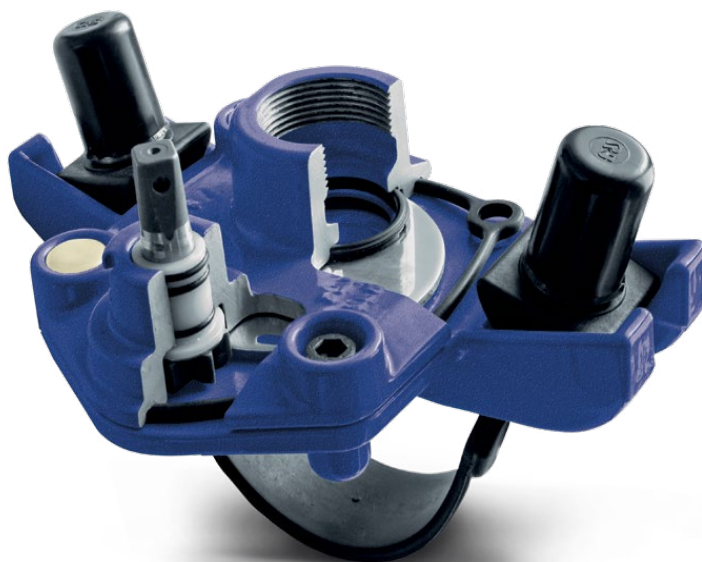


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ERHARD ABS PREMIUM SERVICE VALVE

The innovative tapping systems

With the new ERHARD ABS Premium service valve it has been possible to reduce the number of required models dramatically. There is a separate casing type for each different outlets. Adjustments to the various pipe types and diameters are then simply made using an adjustable retaining bracket. Together with the optimised weight of the cases, this reduces transportation costs and facilitates their daily use.

The well thought through design always ensures safe operation:

- Operationally reliable and tilt-resistant pinion shaft which is centrally arranged above the middle of the pipe and supported in a corrosion-protected shaft feedthrough
- Robust gearing for transmission of the rotary motion to the rotary disc which has a material thickness of 4 mm for a high level of operational safety
- Smooth disc surface for preventing the forming of deposits
- Shear action between rotary disc and sealing rings for self-cleaning
- Opened and closed by $1\frac{3}{4}$ turns in order to be sure of avoiding pressure surges at high flow rates
- Robust and reliable end stops
- Multi-seal O-rings on the pinion shaft, steel-reinforced sealing rings on the rotary disc, gasket, and saddle seal incorporating Duo sealing system
- Reliable corrosion protection thanks to EKB fusion bonded epoxy coating or ERHARD Pro-Enamel

Operation and use

The service valve is operated by the stem extension and the operating key. The torque is about 30Nm at pressure 16 bar.

Drilling under pressure

The drilling device requires a male thread connection Rp 1½

For drilling the design PLASSON or EISI an adapter is available.

Biggest drill or milling diameter: 38 mm, but except at following designs:

- ABSP DN80 for PVC pipes: max. 33 mm
- ABSP DN80 for fibre cement pipes: max. 27 mm
- ABSP DN100 for fibre cement pipes: max. 33 mm
- ABSP for PE-pipes: max 1" (25, 4 mm)

Attention – bore sleeve!

If you use a bore sleeve, the drill diameter must be 36 mm!



Operating instructions

BA83E003_ABSP_DN80-300

BA83E004_Einschraub-
drehchieber_40

BA83E002_Anbohrschelle_
nachtrAnbohren

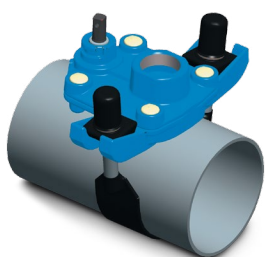
THE SYSTEM AT A GLANCE

Characteristics – materials and fittings

- **Connecting piece:** cast iron with ductile iron EN-JS 1050
- **Rotary disc / pinion shaft:** stainless steel
- **Bearing brush:** POM
- **Sealing rings:** elastomer, steel-sheated
- **Connecting bolts:** steel, countersunk and grouted with cement
- **Corrosion protection of the casing:** ERHARD EKB fusion bonded epoxy coating in "blue", optionally available in ERHARD Pro-Enamel in "blue" inside and outside.
- **Drinking water applications:** DIN-DVGW model inspection certificate, DN 80-300, nominal pressure PN 16; test pressure in accordance with DIN EN 12266 and DIN EN 1074 for casing (water) 25 bar, for seal (water) 17,6 bar; largest admissible operating pressure at operating of 60 °C: 16 bar.
- **Gas applications (only Rp 1½ outlet):** DIN-DVGW model inspection certificate, DN 80-300, nominal pressure MOP 5; application area and inspections for use in gas pipes in accordance with nach DIN 2470, part 1: pressure tests in accordance with DIN 3230, part 5, PG 1; largest admissible operating pressure at operating temperature of +60 °C: 5 bar.
- **Zeta-value** = 4,7

Weights	vertical outlet	horizontal outlet
ERHARD ABS Premium service valve		
Rp 1½	4,5 kg	5,2 kg
Plasson system	4,5 kg	5,2 kg
ERHARD Premium screw-in rotary valve		
Rp 1½	4,1 kg	4,8 kg
Plasson system	4,1 kg	4,8 kg

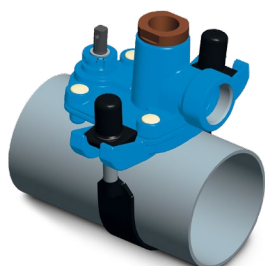
* Plasson system = coated exterior thread similar to Tr 63x5 as locking thread



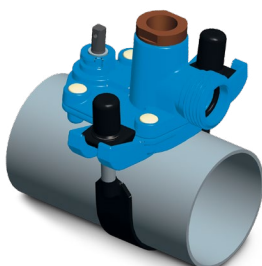
Vertical outlet, Rp 1½



Vertical outlet, Plasson system



Horizontal outlet, Rp 1½



Horizontal outlet, Plasson system

INDIVIDUALLY ADAPTED TO EVERY TYPE OF PIPE

ERHARD retaining brackets for cast iron and steel pipes

Retaining brackets for cast iron and steel pipes (with or without PE jacket) are fully vulcanised with bolt in stainless steel (1.4301) and are 48 mm wide. They are delivered with a saddle seal made of EPDM for drinking water or optionally made of NBR for gas.

Outside pipe diam. mm	Nominal size DN	Pipe type					
		St (R1)	St-PE	ST-PE-ZMU	GGG	GGG-PE	GGG-ZMU
87-104	80	•	•		•	•	
100-115	80			• ¹⁾			•
110-125	100	•	•		•	•	
125-141	100			• ¹⁾			•
136-152	125	•	•		•	•	
150-166	125			• ¹⁾			•
163-179	150	•	•		•	•	
177-195	150			• ¹⁾			•
215-230	200	•	•		•	•	
229-246	200			• ¹⁾			•
270-282	250	•	•		•	•	
281-299	250			• ¹⁾			•
320-335	300	•	•		•	•	
333-351	300			• ¹⁾			•



ERHARD retaining brackets for fibre cement pipes DIN19800

Stainless steel brackets with a rubberised inlay, a bracket width of 90 mm in stainless steel (1.4301) and, in combination with an EPDM saddle seal, used for fibre cement pipes to DIN 19800.

Outside pipe diam. mm	Nominal size DN	Pipe type			
		6 bar	10 bar	12,5 bar	16 bar
96-115	80		•	•	•
117-138	100	•	•	•	•
145-167	125	•	•	•	•
176-197	150		•	•	•
232-253	200		•	•	•
284-302	250		•	•	
340-357	300		•	•	

Torque of the screws at the brackets: 60 Nm

ERHARD service valves for PE-HD-pipes

ERHARD's ABS Premium pipe saddle with PE-HD saddle piece is designed for easy making of a secure connection with PE-HD pipes. The saddle piece is made of PE100 and can be combined using all the standard market welding procedures. The service valve is available in Rp 1½ and Plasson system (each vertical and horizontal) and in nominal sizes from DN 80 to DN 200. An ERHARD EKB fusion bonded epoxy coating acts as corrosion protection.

Service pipe DN	80	100	100	150	150	200	200	250	300
Outside diameter in mm	90	110	125	160	180	200	225	250	315
Weight in kg	5,8	6,3	6,5	7,7	6,2	6,3	6,3	6,4	6,6

ERHARD service valves for PVC- and BLUTOP-pipes (clamp-connection)

Using pipe saddles with PVC-pipes presents special challenges. For this reason the ERHARD ABS Premium service valves for PVC-pipes with rotary valve seals have a wide frame with a special shock-absorbing insert. Pre-defined fixed stops result in a limited clamping force and therefore prevent unwanted deformation of the pipe. The pipe saddles are designed for drilling from above and have either a vertical Rp 1½ outlet or a vertical outlet for the plasson system. Both are suitable for use with drinking water. The cast shell has an ERHARD EKB fusion bonded epoxy coating, the bonnet has an optional ERHARD EKB coating or full enamelling with ERHARD Pro-Enamel.

Service pipe DN	80	100	125	150	200	250	300
Outside diameter in mm	90	110	140	160	225	280	315
Weight in kg	7,5	7,5	9,5	12,0	15,0	20,5	24,0
PVC-pipes	•	•	•	•	•	•	•
BLUTOP-pipes	•	•					

Accessories: ERHARD stem extension with bayonet locking, or stem extension version GW336.



По вопросам продажи и поддержки обращайтесь:

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