

**Ball-Face-  
Clean-Break  
Safety Coupling**

**BF-025  
BF-050**



# WALTHER Ball-Face-Clean-Break Safety Coupling primarily for applications in the chemical industry

## Description:

Clean break coupling in stainless steel, particularly for product lines for challenging fluid or gaseous media. Highest safety standard and optimal handling through automatic sequence control of mechanical connection, sealing and opening flow with valve's eccentric drive. It was developed primarily for applications in the chemical industry. Long-term proven for solvents, disposal mixtures, thermal oils and steam. Also used for lyes, specific acids, oils and many other things.

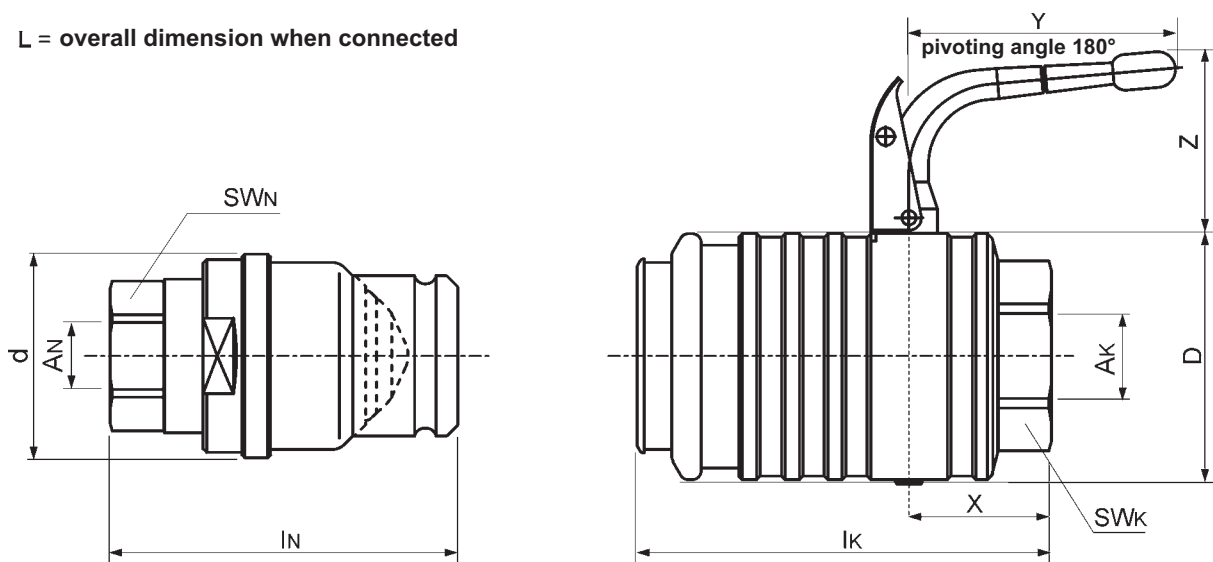
## Technical characteristics:

- squirt-free
- low couple force
- low valve opening forces even at high pressures
- total displacement volume during connection more or less zero, therefore especially suitable for pressurized operation
- high flow rate
- easy cleanable smooth ball-face outer contour
- specially suitable for filling plants, hose stations, mixed stations, thermal oil transfer, usable also for TOP loading
- sealing faces are protected against mechanical damage
- extreme low-maintenance through most simple seal change (coupling with replaceable seal module)
- coupling protected against unauthorized use when connected and disconnected (lockable and sealed)
- type BF-050 tested and certified by the TÜV (approval for street and rail)

		part no.	connection AK / AN	L	lk / lN	D / d	X	Y	Z	SWk / SWN
<b>BF-025</b>	self sealing coupling	BF-025-0-WR548-....*	G 1 1/2	247	159	96	53	90	55	55
	self sealing adaptor	BF-025-2-WR533-....*	G 1		131	68				41
<b>BF-050</b>	self sealing coupling	BF-050-0-WR575-....*	G 2 1/2	436	233	137	80	150	105	95
	self sealing adaptor	BF-050-2-WR560-....*	G 2		195	114				75

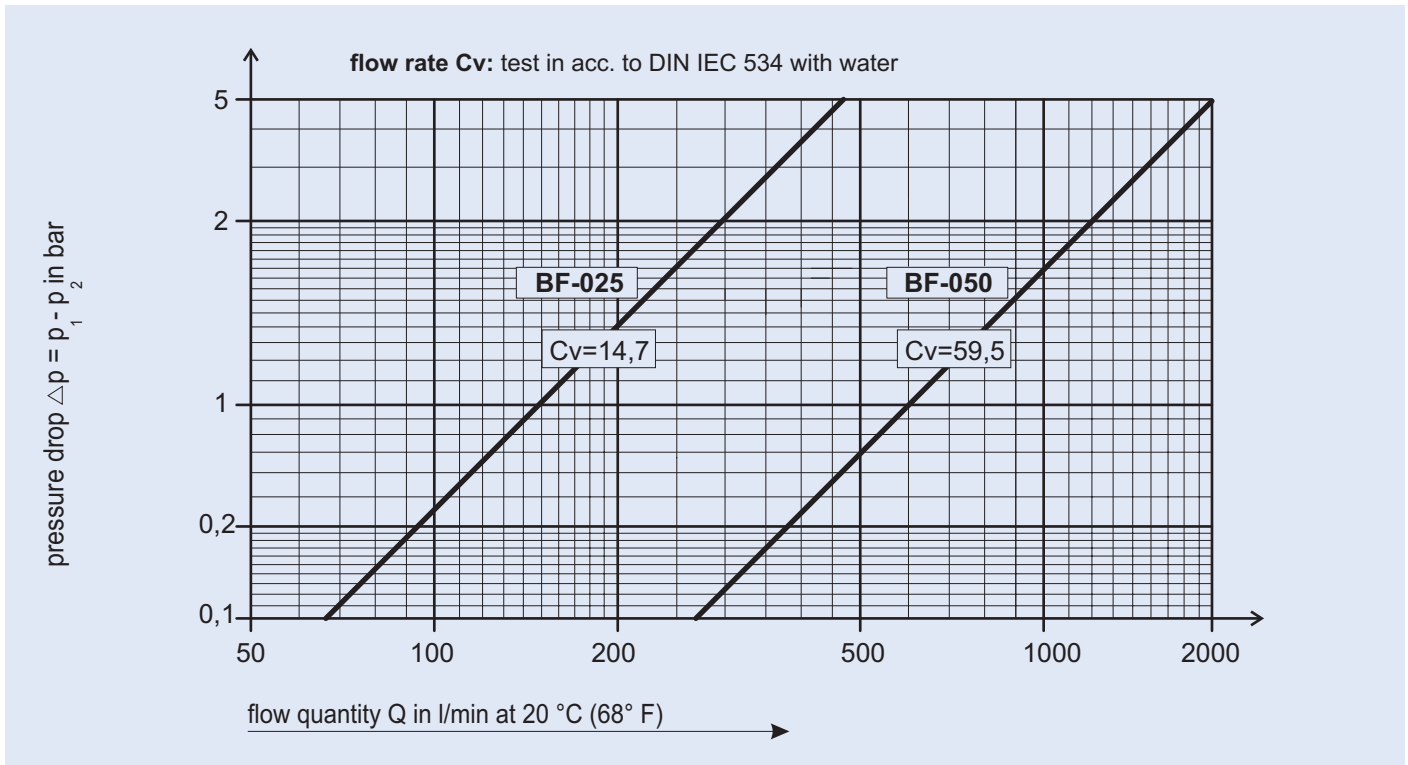
\* ordering code of seal qualities on request

L = overall dimension when connected



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## Performance diagram for BF-025 und BF-050



### Materials:

coupling housing / adaptor: stainless steel 1.4571 and/or 1.4404  
 seals: PTFE with FPM, EPDM or perfluorelastomers

### Technical data:

working pressure:  
 connected = disconnected (BF-025) 40 bar (580 psi)  
 (BF-050) 16 bar (230 psi)

working temperature:  
 (- 47 °C) – 10 °C to + 200 °C (240 °C)  
 (- 53 °F) to +14 °F and + 392 °F (464 °F)

leakage quantity per disconnection cycle:

BF-025 approx. 1 ml (0.06 cu.in., incompressible medium)  
 BF-050 approx. 2,5 ml (0.15 cu.in., incompressible medium)

weight:

BF-025 coupling 4,5 kg (9.9 lbs) / adaptor 1,3 kg (2.9 lbs)  
 BF-050 coupling 15,2 kg (33.4 lbs) / adaptor 5,35 kg (11.8 lbs)

### Cleaning position of the adaptor



### Change of the seal module of type BF-050



**For each application the best suitable coupling**

**Series BF**

with nominal bores from 5 to 50 mm



BF-005

BF-009

BF-012

BF-025

BF-050

**... and more than 300.000 other variations for all applications!**



WALTHER-PRÄZISION 10/2003 • subject to alterations • PB

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