

EXT is typically used in combination with (differential) pressure transmitters for level, flow and (absolute) pressure measurement, in those applications where the diaphragm need to be flush with the vessel wall or where insulation layers need to be passed. The BC construction has a seal body that is made of bar stock or forged material. Its pressure rating is defined by the back-up flange and as such it can be used for pressure ratings in RF or type B1 facings.


STANDARD EXECUTION

DIAPHRAGM	BODY	MOUNTING CONNECTION	FACING
AISI 316(L)	AISI 316(L)	side (radial)	RF
TYPE	STANDARD LENGTH		
B1	50/100/150/200 mm		

FLANGED PROCESS CONNECTIONS
ASME B16.5

size	rating	dD
1.5"	cl. 150 - cl. 2500	32mm
2"	cl. 150 - cl. 2500	44mm
3"	cl. 150 - cl. 2500	72mm
4"	cl. 150 - cl. 2500	81mm

EN 1092-1

size	rating	dD
DN40	PN10-100	32mm
DN50	PN10-100	44mm
DN80	PN10-100	72mm
DN100	PN10-100	81mm

JIS B2220

size	rating	facing	dD
40 (1,5")	5K – 20K	RF	44mm
50 (2")	5K – 20K	RF	57mm
80 (3")	5K – 20K	RF	81mm
100 (4")	5K – 20K	RF	81mm

WETTED PARTS, BODY MATERIALS, AND FACING OPTIONS

diaphragm material	body material
AISI 316(L)	AISI 316(L)
AISI 304(L)	
AISI 321	
AISI 316 UG	
Hastelloy C-276	
Monel 400	Monel 400
Hastelloy C-276	Hastelloy C-276
Duplex 2205	Super Duplex / Duplex
Inconel 600	Inconel 600

facing (ASME B16.5)	
RF	Ra 3.2-6.3 µm
RJF	Ra <1.6 µm
LMF	Ra 3.2-6.3 µm
SMF	Ra <3.2 µm
LTF	Ra <3.2 µm
STF	Ra <3.2 µm
LGF	Ra <3.2 µm
SGF	Ra <3.2 µm

facing type (EN 1092-1)	
B1	Ra 3.2-12.5 µm
A	Ra 3.2-12.5 µm
B2	Ra 0.8-3.2 µm
C	Ra 0.8-3.2 µm
D	Ra 0.8-3.2 µm
E	Ra 3.2-12.5 µm
F	Ra 3.2-12.5 µm

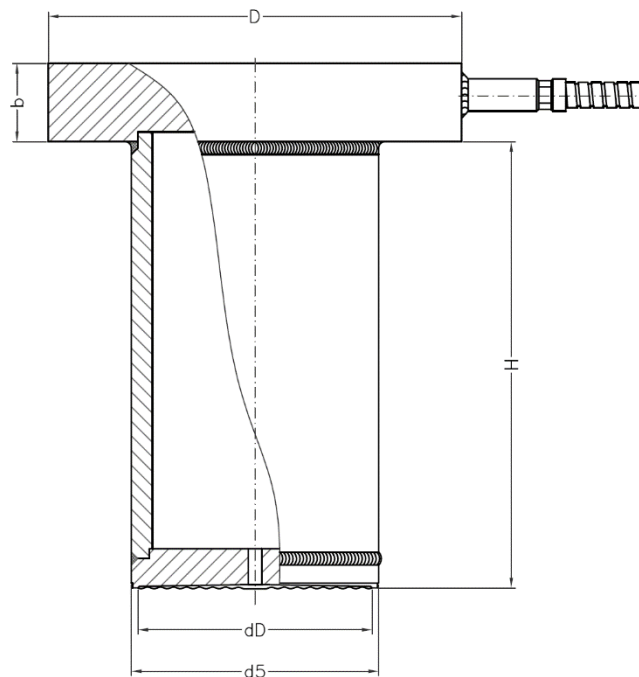
COATING AND OTHER OPTIONS
COATINGS

- gold: 25 µm / 40 µm hydrogen permeation protection (diaphragm only - page 120)
- PTFE / ECTFE for anti-stick purpose only
- FEP / PFA
- thermal spray

OTHER OPTIONS

- heavy duty capillary tube page 113/123
- TC - temperature compensator page 114/121
- PTFE sleeve / lining
- customized length and diameter
- degreased wetted parts
- polished extension
- tapered extension

DRAWING AND DIMENSIONS STANDARD EXECUTIONS



ASME B16.5 - RF FACING

size	rating	facing	dD	b	D	d5	H
2"	cl. 150 - cl. 2500	RF	44	24	92	48	various
3"	cl. 150 - cl. 2500	RF	72	24	127	76	various
4"	cl. 150 - cl. 2500	RF	81	24	157	93	various

All dimensions in mm

EN 1092-1 - TYPE B1

size	rating	type	dD	b	D	d5	H
DN50	PN10-40	B1	44	24	102	48	various
DN50	PN63	B1	44	24	102	48	various
DN50	PN100	B1	44	24	102	48	various
DN80	PN10-40	B1	72	24	138	76	various
DN80	PN63	B1	72	24	138	76	various
DN80	PN100	B1	72	24	138	76	various
DN100	PN10-16	B1	81	24	158	93	various
DN100	PN25-40	B1	81	24	162	93	various
DN100	PN63	B1	81	24	162	93	various
DN100	PN100	B1	81	24	162	93	various

All dimensions in mm

JIS B2220 - RF FACING

size	rating	facing	dD	b	D	d5	H
50	5K	RF	44	24	85	48	various
50	10K	RF	44	24	96	48	various
50	16K	RF	44	24	96	48	various
50	20K	RF	44	24	96	48	various
80	5K	RF	72	24	121	76	various
80	10K	RF	72	24	126	76	various
80	16K	RF	72	24	132	76	various
80	20K	RF	72	24	132	76	various
100	5K	RF	81	24	141	93	various
100	10K	RF	81	24	151	93	various
100	16K	RF	81	24	160	93	various
100	20K	RF	81	24	160	93	various

All dimensions in mm



Holland – United Kingdom – Romania – India – Thailand – Dubai – USA

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