CHANGEOVER VALVES - MODELS 60WN/69WN



SchuFIR SchuE Vertriebs GmbH & Co.KG An der Guldenmühle 8-10, 65817 Eppstein, Germany, T +49 6198 571 100, sales@schuf.de, www.schuf.com

COV Dimension Sheet - Type 60WN (ASME #150-#300/PN16-PN40)



COV standard dimensions														
SIZES								M	AX					Weight in
ASME (150#-300#)	DIN (PN16-PN40)	A	н	L: for REE	UCER L		øD	W1	w	Р	STROKE	Min øD	ZETA value	Kgs 150#/300#
1"	25	115	190	ASME/DN	L1	230	160*	520	710	30	45	160*	0,65	30/35
1½"	40	150	265	1¼"/32	200	350	225*	590	810	45	55	160*	0,65	62 ^(a) /70
2"	50	150	265	1½"/40	205	355	280	615	835	50	60	160*	0,75	75/80
2½"	65	190	360	2"/50	250	440	360	682	962	80	80	225*	0,65	85 ^(a) /95 ^(a)
3"	80	190	360	2½"/65	255	445	360	700	1000	90	90	225*	0,75	115/135
4"	100	230	460	3"/80	300	530	360	790	1140	115	112	225	0,80	150/190
5"	125	300	460	4"/100	390	690	360	795	1145	145	135	225	0,70	255 ^(a) /280 ^(a)
6"	150	280	600	5"/125	380	660	560	1035	1480	175	165	280	0,90	384/420
8"	200	370	800	6"/150	490	860	800	1235	1840	225	218	360	0,60	550/590
10"	250	430	900	8"/200	570	1000	800	1345	2010	270	262	360	0,80	720/950

All dimensions are in mm.

Dimensions are for max PN40/ASME300# at 400°C/750°F. Seats are integral part of Valve bodies.

 $\emptyset D,W,W1$ and P vary acc. to operating conditions. Max øD is acc. to pressure class 300# at 400°C. Min øD is acc. to pressure class 150# at 400°C.

- NOTES:
- ^(a)approx. weights;
- *actuator with rising handwheel;
- others actuators with non-rising handwheel and spindle protrudes "P" mm if disc seals at side B;
- from 1" to 2" different valve design without guide rod (side A) and disc with fins.

			PART	LIST								
		MATERIAL VERSION AND TEMPERATURE RANGE IN °C										
PART	PART	from -29 to 425	from -46 to 340	from -46 to 340	from -184 to 425/538	from -46 to 340						
	NUMBER	WCB	LCB	LCC	St.St.	LCC/Monel Trim version						
Body	1	WCB	LCB	LCC	CF3/CF8M	LCC						
Disc	2	316	316	316	316	Monel 400						
Spindle	3	316	316	316	316	Monel 400						
Yoke	4	WCB/CF3/CF8	WCB/CF3/CF8	WCB/CF3/CF8	CF3/CF8	CF3/CF8						
Handwheel	5	C.I	C.I	C.I	C.I	C.I						
Packing	6	PTFE/Graphite	PTFE/Graphite	PTFE/Graphite	PTFE/Graphite	PTFE/Graphite						
Gasket	7	PTFE/316L	PTFE/316L	PTFE/316L	PTFE/316L	PTFE/Monel						

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COV Combination Dimension Sheet - Type 69WN (ASME #150-#300/PN16-PN40)





COV combination standard dimensions												Safety Valve					
SIZES						MAX						Weight in	To be supplied by Safety Valve Manufacturer				
ASME (150#-300#)	DIN (PN16-PN40)	A		L1 for REDUCER			øD	W1	w	Ρ	STROKE	Min øD	Kgs 150#/300#	C	E	F	G
1"	25	115	190	ASME/DN	L1	230	160*	520	710	30	45	160*	66/77	-	-	-	
1½"	40	150	265	1¼"/32	200	350	225*	590	810	45	55	160*	137 ^(a) /154	-	-	-	-
2"	50	150	265	1½"/40	205	355	280	615	835	50	60	160*	165/176	-	-	-	-
2½"	65	190	360	2"/50	250	440	360	682	962	80	80	225*	187 ^(a) /209 ^(a)	-	-	-	-
3"	80	190	360	2½"/65	255	445	360	700	1000	90	90	225*	253/297	-	-	-	-
4"	100	230	460	3"/80	300	530	360	790	1140	115	112	225	330/418	-	-	-	-
5"	125	300	460	4"/100	390	690	360	795	1145	145	135	225	561 ^(a) /616 ^(a)	-	-	-	-
6"	150	280	600	5"/125	380	660	560	1035	1480	175	165	280	845/924	-	-	-	-
8"	200	370	800	6"/150	490	860	800	1235	1840	225	218	360	1210/1300	-	-	-	-
10"	250	430	900	8"/200	570	1000	800	1345	2010	270	262	360	1585/2090	-	-	-	-

All dimensions are in mm.

Dimensions are for max PN40/ASME300# at 400°C/750°F. Seats are integral part of Valve bodies.

øD,W,W1 and P vary acc. to operating conditions. Max øD is acc. to pressure class 300# at 400°C Min øD is acc. to pressure class 150# at 400°C

- NOTES:
- ^(a)approx. weights;
- *actuator with rising handwheel;

- others actuators with non-rising handwheel and spindle protrudes "P" mm if disc seals at side B;

- from 1" to 2" different valve design without guide rod (side A) and disc with fins.

PART LIST												
		MATERIAL VERSION AND TEMPERATURE RANGE IN °C										
DADT	PART	from -29 to 425	from -46 to 340	from -46 to 340	from -184 to 425/538	from -46 to 340						
PARI	NUMBER	WCB	LCB	LCC	St.St.	LCC/Monel Trim version						
Body	1	WCB	LCB	LCC	CF3/CF8M	LCC						
Disc	2	316	316	316	316	Monel 400						
Spindle	3	316	316	316	316	Monel 400						
Yoke	4	WCB/CF3/CF8	WCB/CF3/CF8	WCB/CF3/CF8	CF3/CF8	CF3/CF8						
Handwheel	5	C.I	C.I	C.I	C.I	C.I						
Packing	6	PTFE/Graphite	PTFE/Graphite	PTFE/Graphite	PTFE/Graphite	PTFE/Graphite						
Gasket	7	PTFE/316L	PTFE/316L	PTFE/316L	PTFE/316L	PTFE/Monel						

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Applications

- Refining, Polymer, Chemical, • Petrochemical and Offshore industries
- Part of plant safety dual pressure relief systems •
- Located e.g. on storage tanks, in pumping or fluid transfer systems, between multiple heat exchangers or dual filtration systems.

Advantages

- Switch over quickly and efficiently from one • relief valve system to another
- Shorter transfer time in hostile plant environments provides greater worker safety
- No production system shutdown •



Changeover valves in the workshop



Design Features

- Sizes: 1" to 10", larger on demand
- Pressure rating: up to ASME #2500
- Leakage rate to process: Class V or VI
- Temperature rating: from -60 to +500°C
- Pressure drop: <3%, Z<1
- Improved body design for lower weight and Zeta value
- Material: Carbon steel and Stainless steel as standard
- Disc and seat metal sealing as standard
- Manual actuation as standard

Design Options

- Included reducers for safety valve mounting
- Bellow sealing for zero leakage to atmosphere (see figure on the right)
- Flushing valves
- Bleed/vent valves
- Heating jacket
- Automated actuation
- Special materials available on request
- Material according to NACE standard available



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