Robinex AG
Alte Distelbergstrasse 1
5035 Unterentfelden

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Schmutzfänger, Typ KU
Strainer, Type KU

Technische Daten

Bauform
2-teilige Körperkonstruktion (verschraubt).
Baulänge nach EN 558-1 Reihe 1

Anschluss
Flansch DN15 bis DN150, PN16 gebohrt.
Flansche PN16 – DN65 werden in 4-Loch-Ausführung geliefert.

Einbaulage
Beliebig, vorzugsweise für waagrechten oder senkrechten Einbau. Durchflussrichtung beachten.

Druckbereich
Max. 16 bar

Temperaturbereich
-30°C bis max. 120°C

Werkstoffe

Gehäuse:	Edelstahl 1.4408
Sieb:	Edelstahl 1.4401
Dichtung:	PTFE

Maschenweite:
Normal:

DN15 – DN50:	1.00mm
DN65 – DN150:	1.50mm

Fein:
0.25mm

Specification

Design
Body consists of two screwed parts. Face to face length according to EN 558-1 R1

Connection
Flange DN15 up to DN150, PN16 drilled.
Flanges PN16 – DN65 will be delivered in 4-hole execution.

Mounting position
As desired, preferably for horizontal or vertical mounting. Please refer to flow direction.

Pressure Range
Max. 16 Bar

Temperature Range
-30°C up to max. 120°C

Material

Body:	Stainless steel 1.4408
Mesh:	Stainless steel 1.4401
Sealing:	PTFE

Mesh
Normal:

DN15 – DN65:	1.00mm
DN65 – DN150:	1.50mm

Fine:
0.25mm

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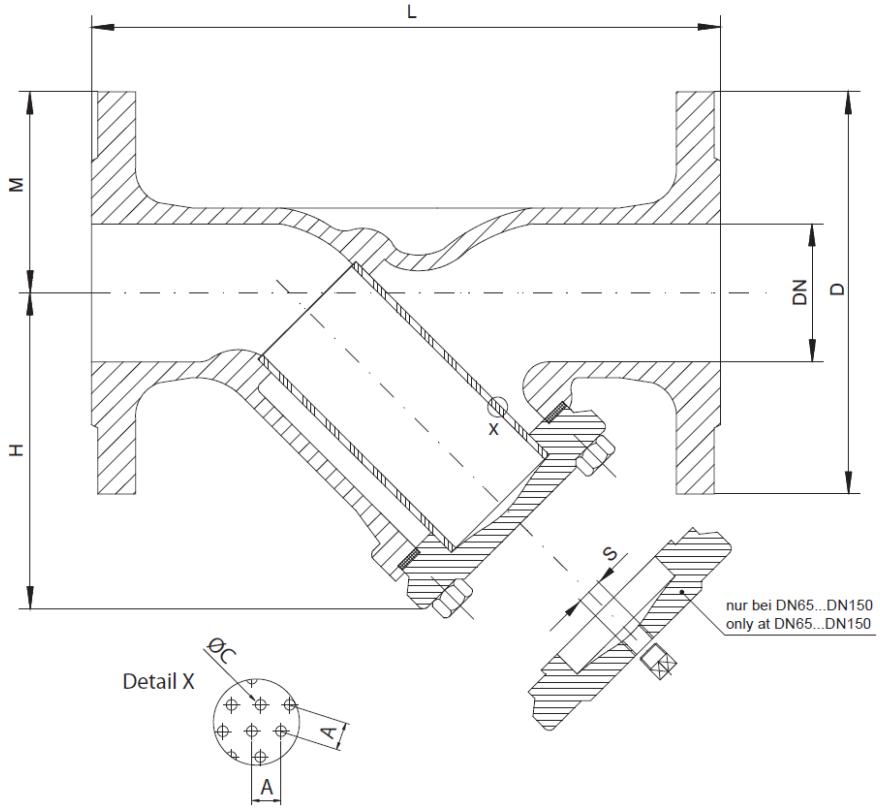
Abmessungen / Dimension



DN	15	20	25	32	40	50	65	80	100	125	150
L	130	150	160	180	200	230	290	310	350	400	480
D	95	105	115	140	150	165	185	200	220	250	285
M	47.5	52.5	57.5	70	75	82.5	92.5	100	110	125	142.5
H	75	75	100	110	120	140	175	196	244	279	320
ØC1	1	1	1	1	1	1	1.5	1.5	1.5	1.5	1.5
A	2	2	2	2	2	2	2.5	2.5	2.5	2.5	2.5
S	-	-	-	-	-	-	3/8“	3/8“	1/2“	1/2“	1/2
Kg	1.9	3.1	3.4	6.7	6.2	8.5	11.5	16.5	23.4	32.5	42

* Flansche PN16 – DN65 werden in 4-Loch-Ausführung geliefert
Flanges PN16 – DN65 will be delivered in 4-hole execution

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Durchflussmenge / Strömungsgeschwindigkeit in Abhängigkeit zur Druckdifferenz beim Schmutzfänger KU

	DN 80		DN 100		DN 125		DN 150		DN 200		DN 250		DN 300	
Kv-Wert, m^3/h	144.0		196.7		320.0		468.0		769.0		1108.0		1520.0	
Zeta-Wert	3.160		4.140		3.810		3.700		4.330		5.090		5.610	
Sieb	Fein		Fein		Fein		Fein		Fein		Fein		Fein	
△p	Q [m^3/h]	W [m/s]	Q [m^3/h]	W [m/s]	Q [m^3/h]	W [m/s]	Q [m^3/h]	W [m/s]	Q [m^3/h]	W [m/s]	Q [m^3/h]	W [m/s]	Q [m^3/h]	W [m/s]
0.01 bar	14.400	0.796	19.670	0.695	32.000	0.725	46.800	0.735	76.900	0.6801	110.800	0.627	152.00	0.597
0.02 bar	20.365	1.125	27.818	0.983	45.255	1.025	66.185	1.040	108.753	0.961	156.695	0.886	214.960	0.844
0.03 bar	24.942	1.378	34.064	1.204	55.426	1.255	81.060	1.273	133.195	1.177	191.911	1.086	263.272	1.034
0.04 bar	28.800	1.591	39.340	1.390	64.000	1.449	63.600	1.470	153.800	1.359	221.600	1.254	304.000	1.194
0.05 bar	32.199	1.779	43.983	1.554	71.554	1.620	104.648	1.644	171.954	1.520	247.756	1.402	339.882	1.335
0.06 bar	35.273	1.949	48.181	1.703	78.384	1.775	114.636	1.801	188.366	1.665	271.403	1.535	372.322	1.463
0.07 bar	38.099	2.105	52.042	1.839	84.664	1.917	123.821	1.945	203.458	1.798	293.149	1.658	402.154	1.580
0.08 bar	40.279	2.250	55.635	1.966	90.510	2.049	132.370	2.080	217.506	1.922	313.390	1.773	429.921	1.689
0.09 bar	43.200	2.387	59.010	2.085	96.000	2.174	140.400	2.206	230.700	2.039	332.400	1.881	456.000	1.791
0.10 bar	45.537	2.516	62.202	2.198	101.193	2.291	147.995	2.325	243.179	2.149	350.380	1.982	480.666	1.888
0.20 bar	64.399	3.558	87.967	3.108	143.108	3.240	209.296	3.288	343.907	30.39	495.513	2.803	679.765	2.670
0.30 bar	78.782	4.357	107.737	3.807	175.271	3.968	256.334	4.027	421.199	3.722	606.877	3.433	832.538	3.270
0.40 bar	91.074	5.032	124.404	4.396	202.386	4.582	295.989	4.650	486.358	4.298	700.761	3.964	961.332	3.776
0.50 bar	101.823	5.625	139.088	4.915	226.274	5.123	330.926	5.199	453.765	4.806	783.474	4.432	1074.802	4.222
0.60 bar	111.542	6.162	152.363	5.384	247.871	5.612	362.511	5.695	585.665	5.264	858.253	4.855	1177.387	4.625
0.70 bar	120.479	6.656	164.571	5.815	267.731	6.062	391.557	6.151	643.392	5.686	927.019	5.245	1271.723	4.996
0.80 bar	128.798	7.116	175.934	6.217	286.217	6.480	418.5926	6.576	687.815	6.079	991.025	5.607	1359.529	5.340
0.90 bar	135.610	7.547	186.606	6.594	303.579	6.873	443.984	6.975	729.537	6.448	1051.141	5.947	1441.999	5.664
1.00 bar	144.000	7.956	196.700	6.950	320.000	7.245	461.000	7.352	769.000	6.796	1108.000	6.268	1520.000	5.971
1.10 bar	151.028	8.344	206.301	7.290	335.169	7.599	490.843	7.711	806.534	7.128	1162.080	6.574	1594.189	6.262
1.20 bar	157.744	8.715	215.474	7.614	350.542	7.937	512.668	8.054	842.397	7.445	1213.753	6.867	1665.077	6.541
1.30 bar	164.185	9.071	224.273	7.925	364.856	8.261	533.602	8.393	876.795	7.749	1263.314	7.147	1733.067	6.808
1.40 bar	170.383	9.413	232.739	8.224	378.629	8.573	553.745	8.699	909.893	8.041	1311.003	7.417	1798.488	7.065
1.50 bar	176.363	9.744	240.907	8.513	391.918	8.874	573.181	9.005	941.829	8.324	1357.017	7.677	1861.612	7.313
1.60 bar	182.147	10.063	248.808	8.792	404.772	9.165	591.978	9.300	972.171	8.597	1401.521	7.929	1922.665	7.553

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Durchflussmenge / Strömungsgeschwindigkeit in Abhängigkeit zur Druckdifferenz beim Schmutzfänger KU

	DN 80		DN 100		DN 125		DN 150		DN 200		DN 250		DN 300	
Kv-Wert, m^3/h	173.5		217.5		364.4		537.0		820.0		1260.0		1735.0	
Zeta-Wert	2.18		3.38		2.94		2.81		3.81		3.94		4.31	
Sieb	Normal		Normal		Normal		Normal		Normal		Normal		Normal	
△p max. bar	1.000		1.000		1.000		1.000		1.000		1.000		1.000	
Dichte kg/m^3	1000.0		1000.0		1000.0		1000.0		1000.0		1000.0		1000.0	
W(max m/s	9.578		7.692		8.248		8.436		7.245		7.125		6.812	
△p	Q [m^3/h]	W [m/s]	Q [m^3/h]	W [m/s]	Q [m^3/h]	W [m/s]	Q [m^3/h]	W [m/s]	Q [m^3/h]	W [m/s]	Q [m^3/h]	W [m/s]	Q [m^3/h]	W [m/s]
0.01 bar	17.350	0.958	21.750	0.769	36.440	0.825	53.700	0.844	82.000	0.725	126.000	0.712	173.500	0.681
0.02 bar	24.537	1.355	30.759	1.088	51.534	1.166	75.943	1.193	115.966	1.025	178.191	1.008	245.366	0.963
0.03 bar	30.051	1.659	37.672	1.332	63.116	1.429	93.011	1.461	142.028	1.225	218.238	1.234	300.511	1.180
0.04 bar	30.700	1.916	43.500	1.538	72.880	1.650	107.400	1.687	164.000	1.449	252.000	1.425	347.000	1.362
0.05 bar	38.796	2.142	48.634	1.720	81.482	1.844	120.077	1.886	183.358	1.620	281.745	1.593	387.958	1.523
0.06 bar	42.499	2.346	53.276	1.884	89.259	2.020	131.538	2.067	200.858	1.775	308.636	1.745	424.986	1.669
0.07 bar	45.904	2.534	57.545	2.035	96.411	2.182	142.077	2.232	216.952	1.917	333.365	1.885	459.038	1.802
0.08 bar	49.073	2.709	61.518	2.176	103.068	2.333	151.887	2.386	231.931	2.049	356.382	2.015	490.732	1.927
0.09 bar	52.050	2.873	65.250	2.308	109.068	2.474	161.100	2.531	246.000	2.174	378.000	2.137	520.500	2.044
0.10 bar	54.866	3.029	68.780	2.433	115.233	2.608	169.814	2.668	259.307	2.291	398.447	2.253	548.655	2.154
0.20 bar	77.592	4.284	97.269	3.440	162.965	3.689	240.154	3.773	366.715	3.240	563.489	3.186	775.916	3.046
0.30 bar	95.030	5.246	119.130	4.213	199.590	4.518	294.127	4.621	449.132	3.968	690.130	3.902	950.299	3.731
0.40 bar	109.731	6.058	137.559	4.865	230.467	5.216	339.629	5.336	518.614	4.582	796.894	4.506	1097.310	4.308
0.50 bar	122.683	6.773	153.796	5.439	257.670	5.832	379.716	5.965	579.828	5.123	890.955	5.038	1226.830	4.817
0.60 bar	134.393	7.419	168.475	5.958	282.263	6.389	415.958	6.535	635.169	5.612	975.992	5.519	1343.925	5.277
0.70 bar	145.161	8.014	181.974	6.436	304.879	6.901	449.286	7.058	686.061	6.062	1054.192	5.691	1451.605	5.699
0.80 bar	155.183	8.567	194.538	6.880	325.929	7.377	480.307	7.546	733.430	6.480	1126.978	6.373	1551.831	6.093
0.90 bar	164.597	9.087	206.339	7.298	345.700	7.825	509.443	8.004	777.920	6.873	1195.341	6.759	1645.966	6.462
1.00 bar	173.500	9.578	217.500	7.692	364.400	8.248	537.000	8.436	820.000	7.245	1260.000	7.125	1735.000	6.812
1.10 bar	181.698	10.046	228.116	8.068	382.186	8.650	563.210	8.848	860.023	7.599	1321.499	7.472	1819.683	7.145
1.20 bar	190.060	10.492	238.259	8.427	399.180	9.035	588.254	9.242	898.265	7.937	1380.261	7.805	1900.597	7.462
1.30 bar	197.820	10.921	247.988	8.771	415.480	9.404	612.274	9.619	934.944	8.261	1436.621	8.123	1978.204	7.767
1.40 bar	205.288	11.333	257.349	9.102	431.164	9.759	635.387	9.982	970.237	8.573	1490.852	8.430	2052.880	8.060
1.50 bar	212.493	11.731	266.382	9.421	446.297	10.102	657.688	10.333	1004.291	8.874	1543.179	8.726	2124.932	8.343
1.60 bar	219.432	12.116	275.118	9.730	460.934	10.433	679.257	10.671	1037.227	9.165	1593.788	9.012	2194.621	8.617

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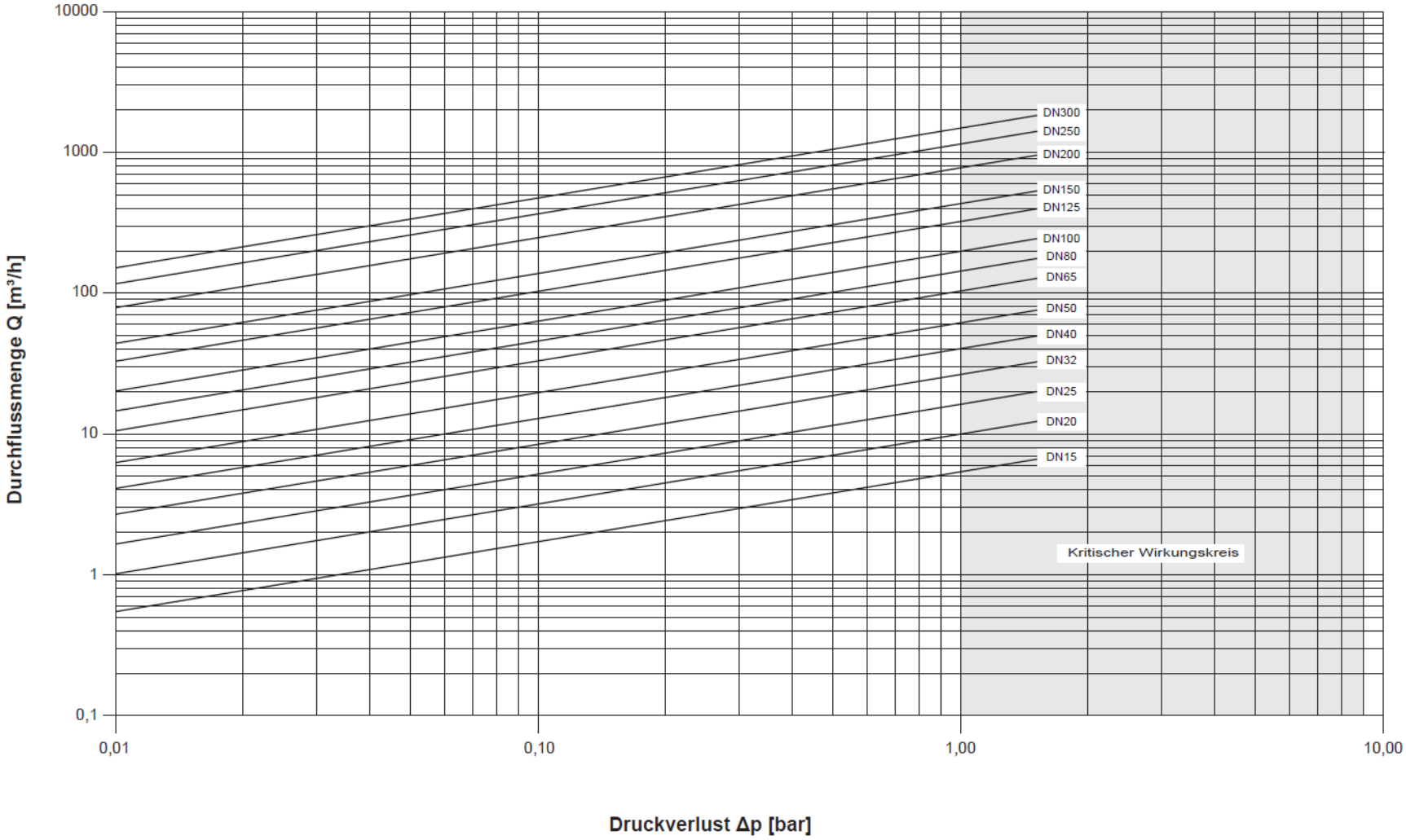
Leistungsdiagramm für Schmutzfänger mit Fein-Sieb und Wasser



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Leistungsdiagramm für Schmutzfänger mit Normal-Sieb und Wasser