

# Hall Pyke



## Hygienic Strainers

**The SMART choice for filtration**

## Hall Pyke Slotted and Perforated Strainers

### High Operational Reliability, Stability and Durability

HALL PYKE slotted and perforated strainers - high operational reliability, stability and durability. HALL PYKE filters are used in the food and beverage industry, in the mechanical industry and plant construction, as well as in the agricultural industry, paper processing, sewage treatment or as system protection for pumps and membranes. HALL PYKE slotted strainers are characterized by their high service life and exemplary self-cleaning properties. The flow-facilitating design of the slotted strainers makes CIP cleaning more effective and means they also meet higher standards of hygienic design. In order to fulfill all technical requirements we have extended the filter range for the HALL PYKE angle type strainer housing by adding the HALL PYKE perforated strainers. The HALL PYKE perforated strainers allow further requirements in filter processes to be performed. Fibrous medium have been a problem for the previously used slotted strainers. These medium can flow laterally into the strainers and thus penetrate into the filtrate. However, perforated strainers prevent such flooding of the filtrate. Electropolishing ensures the strainer surfaces are finely deburred, so that no medium can get caught at the so-called hole burr.

The stable, unperforated side edge is roll-welded and gives the perforated strainer high stability at high pressure differences and pressure surges. The new HALL PYKE perforated strainers are compatible with all established HALL PYKE angle type strainer housings. This means you can insert various different filter types into the HALL PYKE housings without much time and effort.

It goes without saying that the proven cleaning function is activated by removing the filter units in the perforated strainers too.

### Technical Data

Material	Filter: 1.4404 (316L)
Gap width of slotted strainers	0.02 mm to 10.0 mm further gap widths available on request
Filter size of perforated strainer	1 mm, 1.5 mm, 2.5 mm, 8 mm further hole sizes available on request
Surface of perforated strainer	electropolished



## Technical Information Angle Type Strainer

Angle type strainers are an important component in plant construction.

Angle type strainers must be economical, compact, easy to install and allow for flexible applications.

### Technical data

<b>Material</b>	
product-affected parts	1.4301/1.4307; 1.4404
non-affected parts	1.4301/1.4307
strainer	1.4404
<b>Surfaces</b>	
inside	$Ra \leq 0.8 \text{ mm}$ (strainer and welding seam higher)
outside	electropolished
<b>Sealing</b>	
grooved ring, sealing ring	EPDM (other materials on request)
<b>Compressive strength</b>	
nominal pressure DN25 - 100	PN10
nominal pressure DN125 - 150	PN6
<b>Connections</b>	
standard	welding ends DIN 11850
alternative	thread ends DIN 11851/SMS
alternative	liner ends DIN 11851
alternative	clamp ends DIN 32676 (other variants on request)



### Key features:

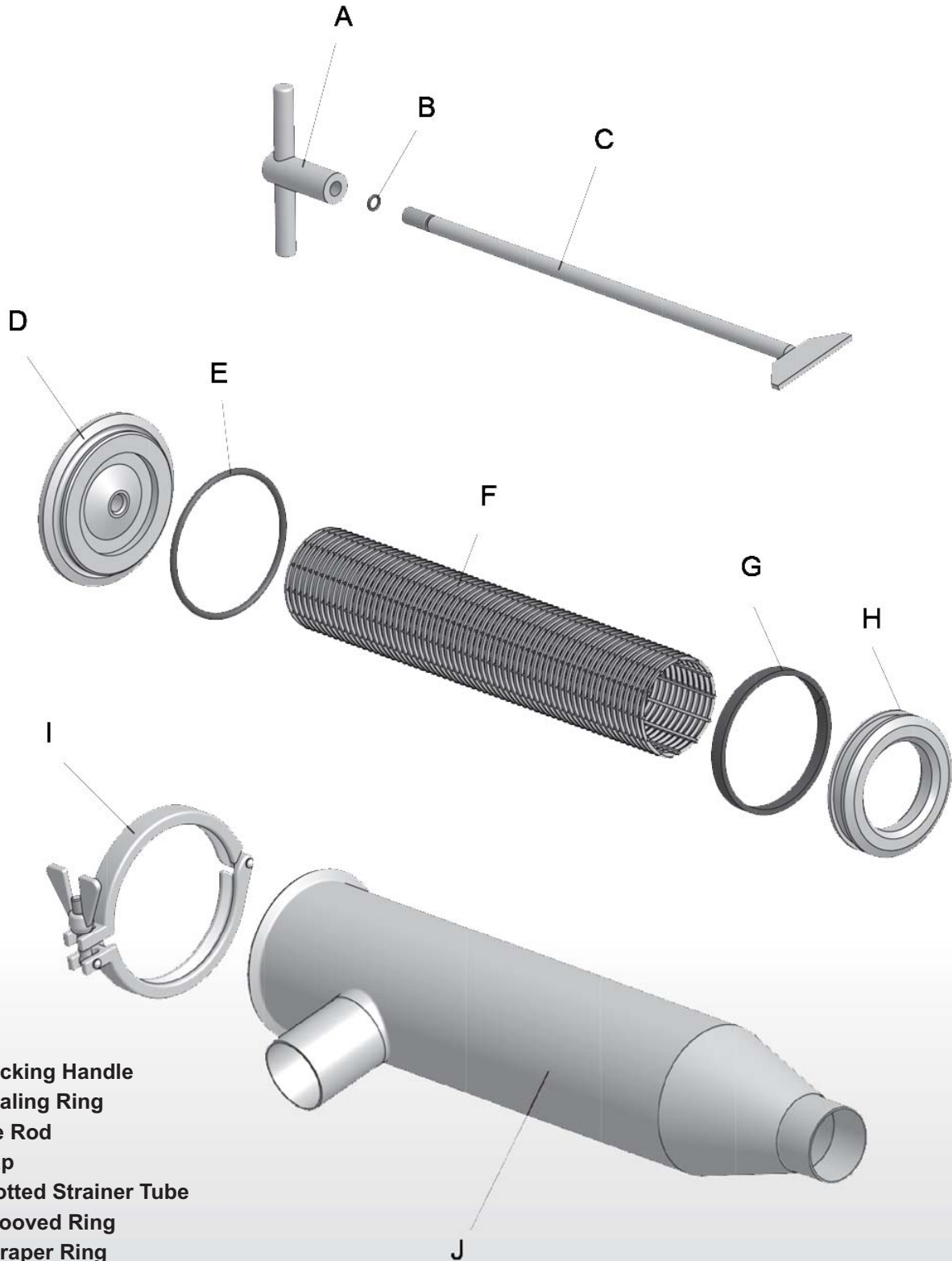
1. The gap width can be easily adjusted to specific requirements by replacing the slotted strainer tubes.
2. Thanks to the design principle, the stability of the strainers has been significantly increased. This results in improved differential pressure stability.
3. Thanks to the built-in heavy duty clamp, no tools are required for assembling and disassembling slotted tubes with nominal diameters up to DN100. This makes replacing the slotted tube quick and easy. DN125 - 150 feature a DIN 11851 grooved nut.
4. During disassembly of the slotted tube, the gap between the tube and the casing is automatically cleaned by the scraper ring.
5. The slotted tube used has the same dimensions, but features a larger strainer area than conventional perforated sheets.
6. Direction of flow is from the outside to the inside
7. Cost-effective production was another important factor in designing this product. Compare us to our competitors. Our prices will impress you.

**Not all versions could be included in this catalogue.**

**Further slotted tubes are available with a range of different gap widths.**

**We will be happy to tailor our angle type strainer to meet your needs. For example, with heating.**

## Explosion View Angle Type Strainer

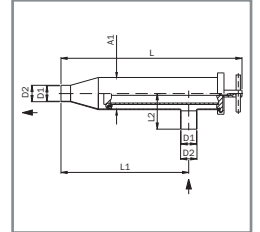


- A** Locking Handle
- B, E** Sealing Ring
- C** Tie Rod
- D** Cap
- F** Slotted Strainer Tube
- G** Grooved Ring
- H** Scraper Ring
- I** Heavy Duty Clamp
- J** Casing

## Angle Type Strainer

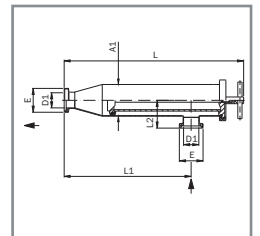
### Angle Type Strainer Welding Ends DIN

DN	D1	D2	A1	L	L1	L2	Weight [kg]
25	26	29	70	554	406	82	3.70
32	32	35	70	549	401	77	3.70
40	38	41	70	534	386	85	3.70
50	50	53	104	585	413	115	6.90
65	66	70	104	558	386	113	7.00
80	81	85	154	767	563	150	12.10
100	100	104	154	721	517	167	12.20
125	125	129	204	923	650	165	26.20
150	150	154	204	923	650	165	30.70



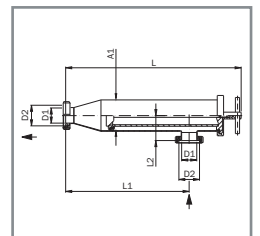
### Angle Type Strainer Male Ends DIN

DN	D1	A1	E	L	L1	L2	Weight [kg]
25	26	70	Rd 52 x 1/6"	561	413	67	3.90
32	32	70	Rd 58 x 1/6"	552	404	70	4.00
40	38	70	Rd 65 x 1/6"	543	395	70	4.20
50	50	104	Rd 78 x 1/6"	589	417	90	7.40
65	66	104	Rd 95 x 1/4"	565	393	95	7.80
80	81	154	Rd 110 x 1/4"	777	573	125	13.20
100	100	154	Rd 130 x 1/4"	750	546	134	13.90
125	125	204	Rd 160 x 1/4"	927	654	161	28.30
150	150	204	Rd 190 x 1/4"	931	658	165	33.10



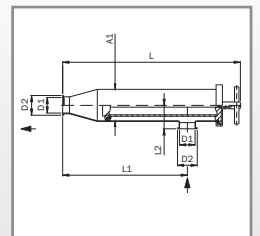
### Angle Type Strainer Liner Ends DIN

DN	D1	D2	A1	L	L1	L2	Weight [kg]
25	26	44	70	554	406	60	4.20
32	32	50	70	545	397	63	4.30
40	38	56	70	536	388	64	5.00
50	50	68.5	104	582	410	83	8.00
65	66	86	104	557	385	87	8.60
80	81	100	154	569	565	114	14.40
100	100	121	154	740	536	124	15.90
125	125	150	204	915	642	149	28.30
150	150	176	204	918	645	152	33.10



### Angle Type Strainer Clamp Ends DIN

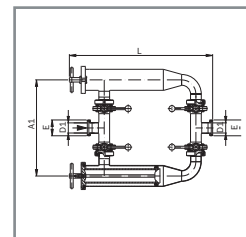
DN	D1	D2	A1	L	L1	L2	Weight [kg]
25	26	50.5	70	554	406	60	3.80
32	32	50.5	70	542	394	60	3.90
40	38	50.5	70	532	384	60	4.00
50	50	64	104	576	404	76	7.10
65	66	91	104	553	381	83	7.30
80	81	106	154	760	556	108	12.60
100	100	119	154	724	520	108	13.10
125	125	155	204	909	636	143	28.30
150	150	183	204	909	636	143	33.10



## Angle Type Strainer

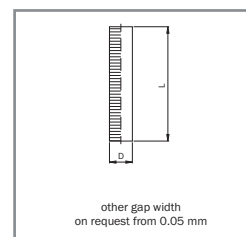
### Angle Type Strainer Combination

DN	D1	E	A1	L	Weight [kg]
25	26	Rd 52 x 1/6"	350	643	14.50
32	32	Rd 58 x 1/6"	346	641	15.10
40	38	Rd 65 x 1/6"	365	646	16.40
50	50	Rd 78 x 1/6"	474	707	24.60
65	66	Rd 95 x 1/6"	454	704	28.10
80	81	Rd 110 x 1/4"	617	937	47.80
100	100	Rd 130 x 1/4"	562	907	54.40



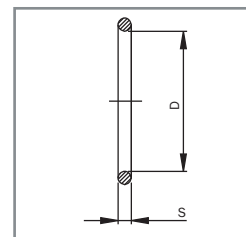
### Slotted Strainer Tube

DN	D	L	free screening area (cm2)			Weight [kg]
			1 mm	0.5 mm	0.25 mm	
25 - 40	45	353	241	161	100	0.50
50 - 65	70	350	372	248	154	0.80
80 - 100	110	470	791	527	325	1.30
125 - 150	164	750	1574	1139	773	6.10



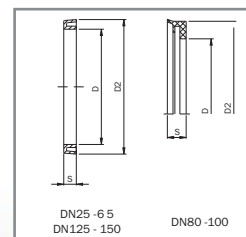
### Sealing Ring

DN	D	S	Weight [kg]
<b>Sealing ring for tie rod</b>			
25 - 40	6	2	0.01
50 - 65	8	2	0.01
80 - 150	12	2	0.01
<b>Sealing ring for cap</b>			
25 - 40	54	5	0.02
50 - 65	86.5	5	0.03
125 - 150	204	7	0.04



### Grooved Ring

DN	D	D2	S	Weight [kg]
25 - 40	50	65	11	0.01
50 - 65	92	100	10	0.01
80 - 100	120	148	15	0.07
125 - 150	190	200	12.5	0.07



## Technical Information Dirt Trap

Hall Pyke dirt traps protect your product and plant components, pumps, heat exchangers etc., from foreign objects that can cause malfunctions. Our dirt traps are Y-shaped (Y filter). The direction of flow is always from the inside to the outside. The trap should be installed so that the filter insert is removed from below. Its streamlined shape ensures reliable processes in a simple and cost-effective way. We offer gap filters with gap widths of 1 mm, 0.5 mm and 0.25 mm. Compared to conventional perforated sheets, slotted tubes offer much greater pressure stability and a larger screening area.



### All advantages at a glance

<b>Material</b>	
product-affected parts	1.4301/1.4307; 1.4404
non-affected parts	1.4301/1.4307
strainer	1.4435
<b>Surfaces</b>	
inside	Ra ≤ 0.8 mm (strainer and welding seam higher)
outside	electropolished
<b>Sealing</b>	
clamp seal ring DIN 32676	EPDM, (other materials on request)
<b>Compressive strength</b>	
nominal pressure	PN10
<b>Connections</b>	
standard	welding ends DIN 11850
alternative	thread ends DIN 11851
alternative	clamp ends DIN 32676 (other variants on request)

The Kv value describes the rate of flow in m<sup>3</sup>/h of water up to 15°C with a pressure loss of 1 bar (=Δp)

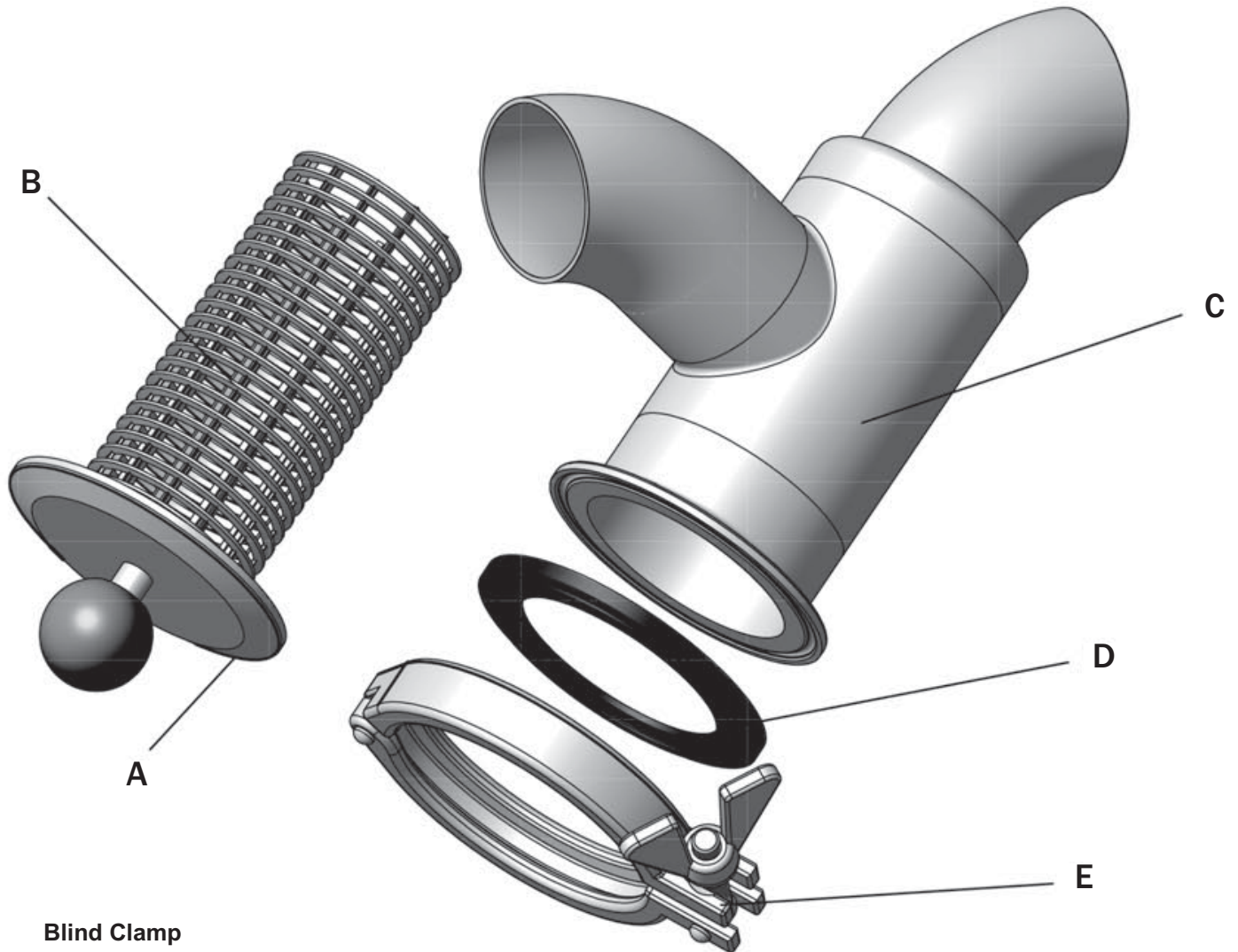
### The KV - Value

Gap width in mm	DN	25	40	50	65	80	100
1	KV	16.7	33.5	51.5	86.7	127.6	192.3
0.5	KV	15.1	28.6	43.0	69.2	103.1	155.2
0.25	KV	13.6	24.8	36.5	56.2	83.6	127.9

**Ask us about our range of dirt trap products – we'll be glad to help.**



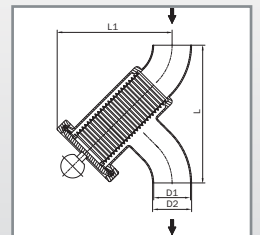
## Explosion View Dirt Trap



- A Blind Clamp
- B Slotted Strainer Tube
- C Casing
- D Clamp Seal Ring
- E Heavy Duty Clamp

### Dirt Trap Welding Ends DIN

DN	D1	D2	L	L1	Weight [kg]
25	26	29	147	123	1.61
40	38	41	172.5	153	2.44
50	50	53	187	156	2.50
65	66	70	215.5	179	3.39
80	81	85	240.5	197	4.13
100	100	104	269.5	235	6.37

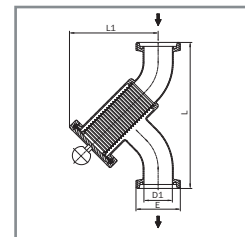




## Angle Type Strainer

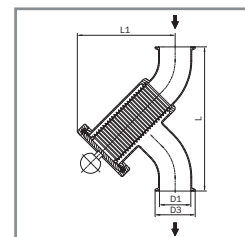
### Dirt Trap Male Ends DIN

DN	D1	E	L	L1	Weight [kg]
25	26	Rd 52 x 1/6"	205	123	1.89
40	38	Rd 65 x 1/6"	237.5	153	2.58
50	50	Rd 78 x 1/6"	256	156	3.03
65	66	Rd 95 x 1/6"	294.5	179	4.20
80	81	Rd 110 x 1/4"	329.5	197	5.39
100	100	Rd 130 x 1/4"	377.5	235	7.94



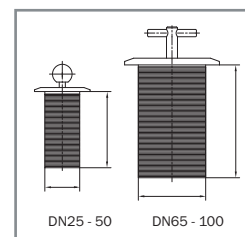
### Dirt Trap Clamp Ends DIN

DN	D1	D3	L	L1	Weight [kg]
25	26	50.5	147	189	1.75
40	38	50.5	172.5	214.5	2.54
50	50	64	187	229	2.63
65	66	91	215.5	270.5	3.75
80	81	106	240.5	295.5	4.58
100	100	119	269.5	325.5	6.81



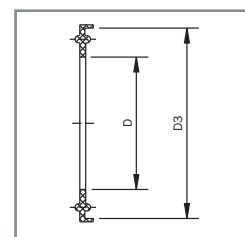
### Insert for Dirt Trap

DN	D	L	free screening area (cm <sup>2</sup> )			Weight [kg]
			1 mm	0.5 mm	0.25 mm	
25	38	100	91	37	21	0.87
40 - 50	57	125	172	71	40	1.24
65	73	145	257	106	61	1.56
80	85	160	331	137	79	1.86
100	110	185	498	205	119	2.34



### Sealring

DN	D	D3
25	50.	2 64
40	60.7	77.5
50	66.	2 91
65	81.2	106
80	100.2	119
100	125.2	155



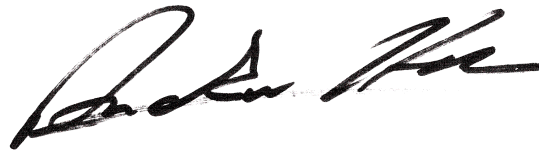
# SMART Choice

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To help you select the right filtration solution for your business Hall Pyke have developed our Smart Choice Catalogue. Use the catalogue to help you navigate through the often difficult and complex decisions about filtration products. The catalogue features just a selection of the filtration solutions Hall Pyke can provide. Your account manager will be happy to discuss your specific needs and answer any questions you may have.

“Having a World Class product range is at the heart of our strategy but it’s delivering first class service, tailored to our unique customer needs that’s the life blood of our organisation.

If both of these things are important to your company then Hall Pyke is the Smart Choice for filtration”.



Andrew Hall, Managing Director



# Hall Pyke



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