

Maximum pressure 320 bar Flow rates to 450 l/min

Technical data

Filter housing (Materials)

- Head: Cast iron (chemical heat treatment)
- Housing: Steel (chemical heat treatment)
- Bypass valve: SteelCheck valve: Steel

Pressure

- Working pressure: 320 bar (32 MPa)
- Test pressure: 480 bar (48 MPa)
- Burst pressure: 960 bar (96 MPa)
- Pulse pressure fatigue test: 1.000.000 cycles with pressure from 0 to 320 bar (32 MPa)

Temperature

• From -25°C to +110°C

Bypass valve

- Opening pressure 6 bar ±10%
- Other opening pressures on request.

Δp Elements type

Microfibre filter elements series N: 20 bar
 Microfibre filter elements series H: 210 bar

(excluded FHM 050 - 500)

• Microfibre filter elements series S: 210 bar (only for FHM 050 - 500)

• Wire mesh filter elements series N: 20 bar

• Fluid flow through the filter element from OUT to IN.

Seals

Standard NBR series AOptional FPM series V

FHM FILTERS ARE PROVIDED FOR VERTICAL MOUNTING

Weights (kg)

Length	1	2	3	4	5
• FHM 006	2,17	-	-	-	-
• FHM 007	-	4,74	5,95	-	-
• FHM 010	-	4,74	5,95	-	-
• FHM 050	5,31	5,68	6,09	6,56	7,74
• FHM 065	5,47	5,83	7,04	-	-
• FHM 135	8,78	10,38	11,43	-	-
• FHM 320	19,8	21,93	24,22	26,70	-
• FHM 500	35	39,17	42,69	54,70	60,50

Volumes (dm³)

volunies (uni)					
Length	1	2	3	4	5
• FHM 006	0,12	-	-	-	-
 FHM 007 	-	0,30	0,50	-	-
• FHM 010	-	0,30	0,50	-	-
• FHM 050	0,29	0,38	0,48	0,60	0,89
• FHM 065	0,27	0,34	0,56	-	-
• FHM 135	0,49	0,82	1,03	-	-
• FHM 320	1,04	1,76	2,53	3,36	-
• FHM 500	1,63	2,35	2,96	5,11	6,44

Connections

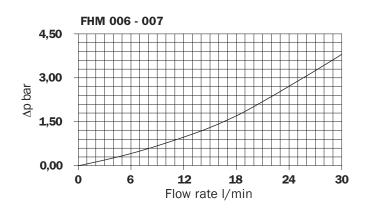
• FHM: Manifold mounting

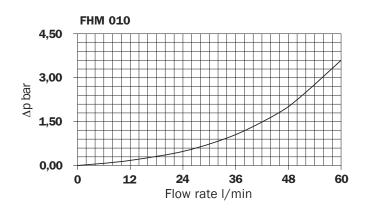


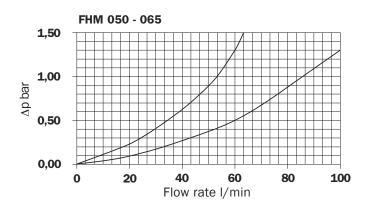
Filter housings Δp pressure drop

The curves are plotted utilising mineral oil with density of 0,86 kg/dm³ to ISO 3968.

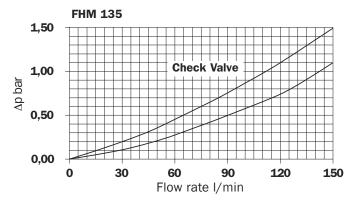
 Δp varies proportionally with density.

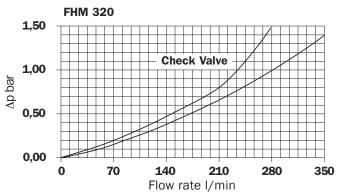


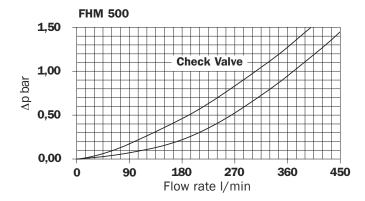




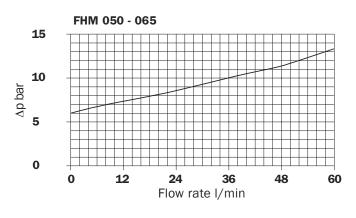


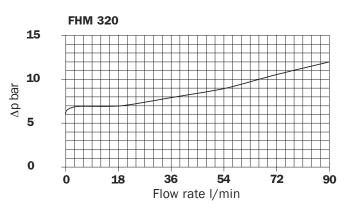


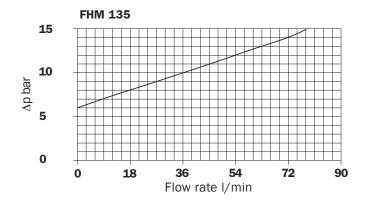




Valves
Bypass valve pressure drop







Recommended maximum flow rate

- Pressure drop of filter assembly equal to Δp 1,5 bar.
- Oil kinematic viscosity 30 mm²/s (cSt).
- Density 0,86 kg/dm³.

	Filtration									
	Length	gth A03 A06 A10 A16 A2								
FHM 006	1	8	9	12	13	14				
	Serie H - Flow rate I/min									

	Filtration									
	Length A03 A06 A10 A16 A2									
FHM 007	2	12	13	14	15	16				
	3	13	14	15	16	17				
	Serie H - Flow rate I/min									

	Filtration									
	Length A03 A06 A10 A16 A									
FHM 010	2	19	21	27	28	31				
	3	26	27	31	32	33				
	Serie H - Flow rate I/min									

	Filtration								
	Length	A03	A06	A10	A16	A25	M25		
FHM 050	1	38	39	65	67	80	100		
	2	46	50	68	75	88	102		
	3	56	58	75	80	93	103		
	4	67	70	84	85	95	104		
	5	81	82	93	95	100	105		
			Saria	N - Flo	w rate	1/min			

		Filtration						
	Length	A03	A06	A10	A16	A25		
FHM 050	1	28	36	50	52	62		
	2	41	44	63	70	85		
	3	51	53	71	77	90		
	4	62	65	80	81	92		
	5	73	74	83	88	97		
		6-	win II	Flass.	-t- 1/-			

Serie N -	Flow	rate	I/min

Serie H - Flow rate I/min

	Filtration								
	Length	A03	A06	A10	A16	A25	M25		
FHM 065	1	23	30	47	53	71	102		
	2	30	44	58	63	80	103		
	3	51	59	78	82	92	105		

	Filtration								
	Length	A03	A06	A10	A16	A25			
FHM 065	1	22	23	43	50	67			
	2	30	34	56	62	75			
	3	51	57	76	81	91			
		_				_			

Serie N - Flow rate I/min

Serie H - Flow rate I/min

	Filtration								
	Length	A03	A06	A10	A16	A25	M25		
FHM 135	1	60	65	98	104	130	149		
	2	90	96		119				
	3	118	119	143	145	156	167		
	Serie N - Flow rate I/min								

	Filtration							
	Length A03 A06 A10 A16 A2							
FHM 135	1	45	51	83	85	122		
	2	78	91	109	110	134		
	3	102	111	130	136	146		
	Serie H - Flow rate I/min							

		Filtration					
	Length	A03	A06	A10	A16	A25	M25
FHM 320	1	111	121	187	217	252	310
	2	200	215	280	292	320	328
	3	245	267	311	320	325	332
	4	266	280	314	325	336	340
			Serie	N - Flo	w rate	l/min	1

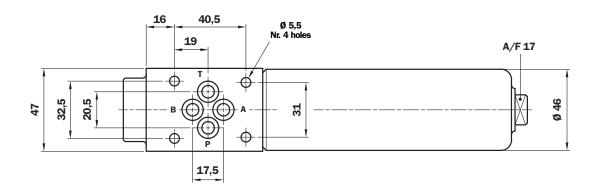
	Filtration					
	Length	A03	A06	A10	A16	A25
FHM 320	1	97	102	156	162	228
	2	162	181	236	240	282
	3	206	233	275	280	305
	4	232	246	280	284	310
		Se	rie H -	Flow r	ate I/r	nin

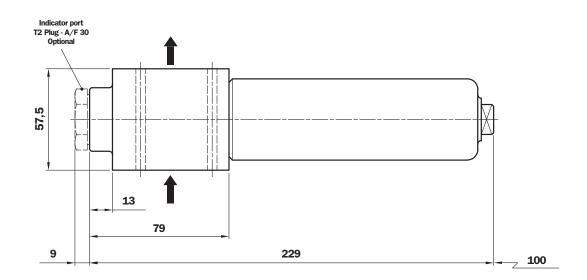
		Filtration					
	Length	A03	A06	A10	A16	A25	M25
FHM 500	1	240	268	320	330	350	410
	2	275	298	345	350	375	420
	3	325	339	382	385	400	430
	4	348	370	395	400	410	440
	5	374	383	405	410	425	450
			Saria	N - Elo	w rata	I/min	

		Filtration				
	Length	A03	A06	A10	A16	A25
FHM 500	1	140	150	238	240	300
	2	210	235	298	305	325
	3	258	265	325	330	360
	4	287	315	360	365	390
	5	340	347	385	390	410
		Se	rie H -	Flow r	ate I/r	min

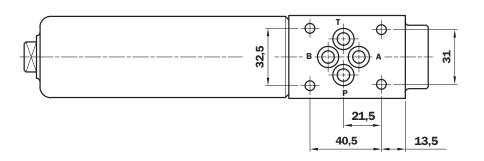
Serie N - Flow rate I/min

G1 - Housing side "A"





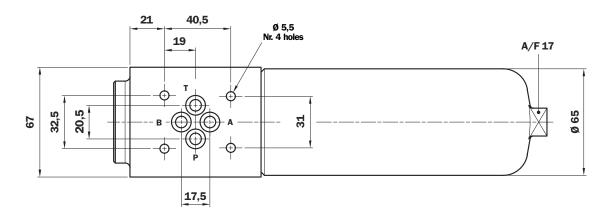
G2 - Housing side "B"

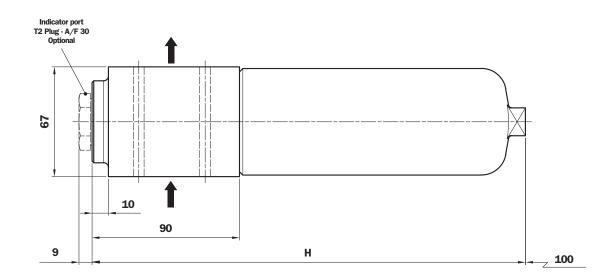


Manifold connections

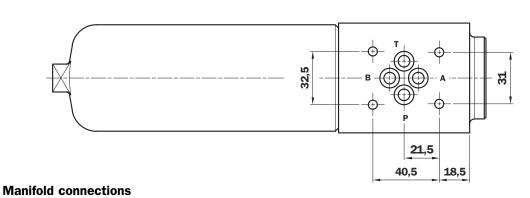
Туре	Size
G1	Housing side "A"
G2	Housing side "B"

G1 - Housing side "A"





G2 - Housing side "B"



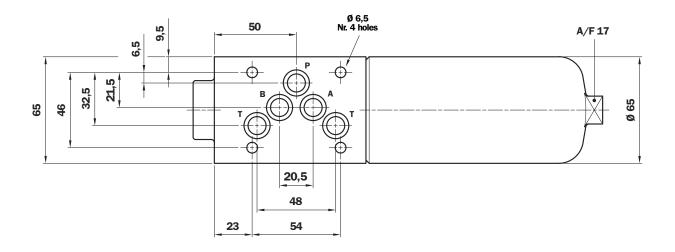
FHM 007

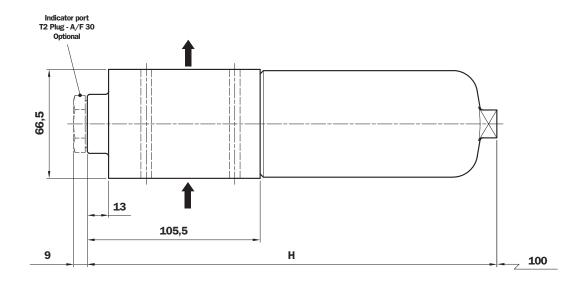
Length	Н
Filter	mm
2	265
3	366

Туре	Size
G1	Housing side "A"
G2	Housing side "B"

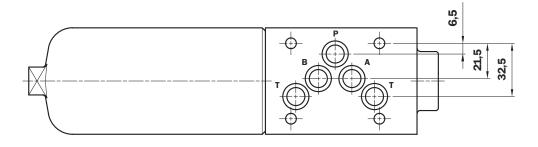
162

G1 - Housing side "A"





G2 - Housing side "B"

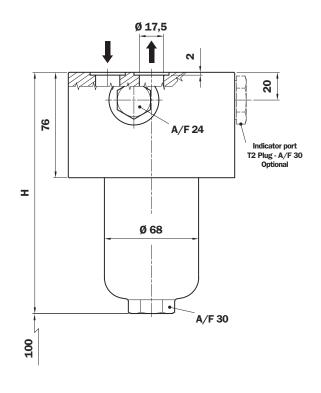


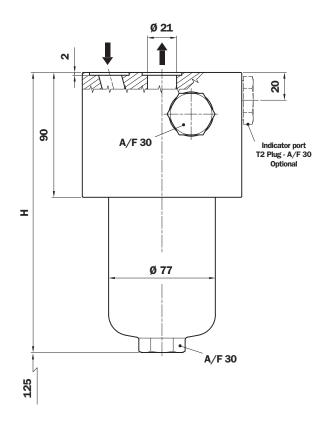
FHM 010

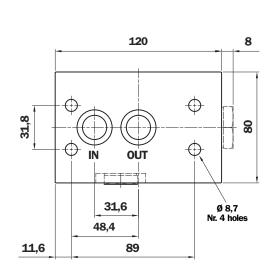
Length	Н
Filter	mm
2	280
3	381

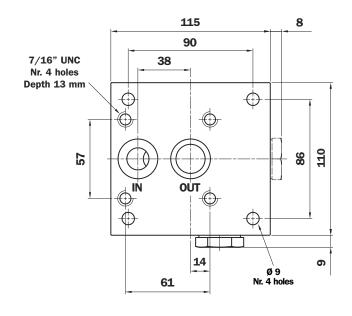
Manifold connections

Туре	Size
G1	Housing side "A"
G2	Housing side "B"









Length Filter	H mm
1	154
2	191
3	233
4	281
5	403
	•

FHM 065

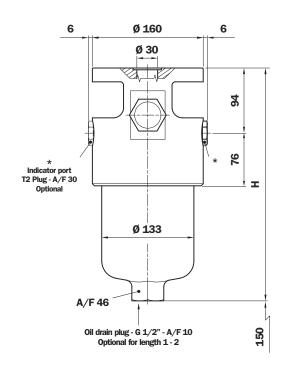
Length	Н
Filter	mm
1	162
2	193
3	295

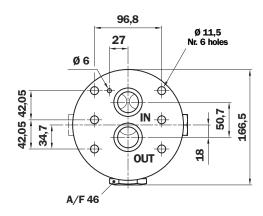
FHM 135

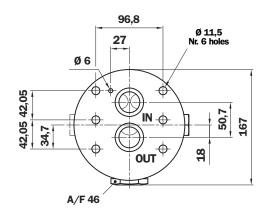
Length Filter	H mm
1	202
2	315
3	390

6 Ø 160 6 Ø 30 ** Indicator port T2 Plug - A/F 30 Optional Ø 101 Ø 101

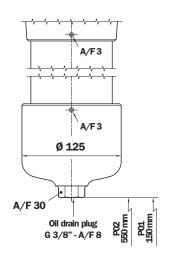
FHM 500





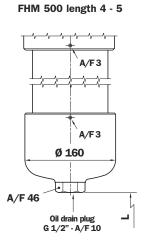


FHM 320 length 4



Style P01
Standard maintenance from head.

Style P02
Maintenance option from housing base.



FHM 320

Length	Н
Filter	mm
1	293
2	416
3	548
4	702

FHM 500

Length	Н
Filter	mm
1	355
2	445
3	521
4	679
5	845

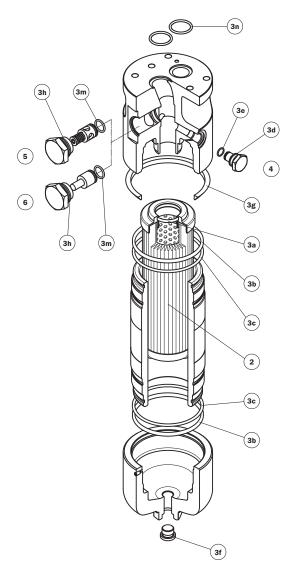
Style P01					
Filter length	L (mm)				
4-5	150				

Style P02				
Filter length	L (mm)			
4	480			
5	650			

165

			FILTER Series						
Item	Description	Q.ty	FHM 006		FHM 007		FHM 010		
_1	Filter assembly	1			See ord	er table			
2	Filter element	1			See ord	er table			
3	Seal Kit	1	NBR	FPM 02050325	NBR	FPM 02050601	NBR	FPM	
			02050324		02050600		02050320		
За	Filter element seal	1	O-R	121	0-R 4	4100	0-R 4	4100	
Ja	The clement sear	-	Ø 15,88	3 x 2,62	Ø 24,99 x 3,53		Ø 24,99 x 3,53		
3b	Bowl seal	1	O-R :	3125	0-R 3187		0-R 3187		
35	Down Sear		Ø 31,22 x 2,62		Ø 47,29 x 2,62		Ø 47,29 x 2,62		
0 -	B. Laufer I. dan dar		Parba	k 124	Parbak 134		Parba	k 134	
Зс	Bowl anti-extrusion ring	1	Ø 32,21	x 2,18	Ø 48,08 x 2,18		Ø 48,08 x 2,18		
3d	Gasket	1	01030058 (HNBR)	01030046 (FPM)	01030058 (HNBR)	01030046 (FPM)	01030058 (HNBR)	01030046 (FPM)	
_				0-R 2	2050	0-R 2050		0-R 2050	
3e	O-Ring indicator	1	Ø 12,42 x 1,78		Ø 12,42	2 x 1,78	Ø 12,42	2 x 1,78	
0.5	0		4 pcs	0-R 108	4 pcs	0-R 108	5 pcs	O-R 2050	
3f	Connection seal	1	Ø 8,73 x 1,78		Ø 8,73 x 1,78		Ø 12,42 x 1,78		
4	Indicator connection plug	1	T2H	T2V	T2H	T2V	T2H	T2V	

Spare parts



Item	Description	Q.ty	FHM	050	FHM	065		Series	FHM	320	FHM	500
Itom	Bosonption	4,	1 1110	711111 000								
_1	Filter assembly	1		See order table								
2	Filter element	1					See ord	ler table				
3	Seal kit	1	NBR	FPM	NBR	FPM	NBR	FPM	NBR	FPM	NBR	FPM
	Sear Kit	_	02050410	02050411	02050268	02050279	02050271	02050282	02050275	02050286	02050332	02050333
За	Filter element seal	1	0-R 3	3093	0-R 4	4100	0-R :	3106	0-R 144		0-R 153	
Ja	riitei element seal	_	Ø 23,67	x 2,62	Ø 24,99	x 3,53	Ø 26,65	5 x 2,62	Ø 39,69	9 x 3,53	Ø 49,21	x 3,53
3b	Bowl seal	1	0-R 3	3225	O-R	159	0-R 3	3256	2 pcs.	0-R 3350	2 pcs. (D-R 4462
30	bowi seai		Ø 56,82	x 2,62	Ø 55,56	x 3,53	Ø 64,77	x 2,62	Ø	88,57 x 2,62	Ø1	.17,10 x 3,53
Зс	Bowl anti-extrusion ring	1	Parba	k 139	Parba	k 227	Parba	k 144	2 pcs. P	arbak 153	2 pcs. P	arbak 247
30	Bowl and extrusion ning		Ø 56,03	x 2,18	Ø 54,5	Ø 54,53 x 3 Ø 63,96 >		Ø 63,96 x 2,18 Ø 89,36 x 2,18		Ø 117,63 x 3		
			01030058	01030046	01030058	01030046	01030058	01030046	01030058	01030046	01030058	01030046
3d	Gasket	1	(HNBR)	(FPM)	(HNBR)	(FPM)	(HNBR)	(FPM)	(HNBR)	(FPM)	(HNBR)	(FPM)
3e	O-Ring indicator	1	0-R 2050		0-R 2	2050	0-R 2050		0-R 2050		0-R 2050	
36	O-King indicator		Ø 12,42	x 1,78	Ø 12,42	2 x 1,78	Ø 12,42	2 x 1,78	Ø 12,42	2 x 1,78	Ø 12,42	2 x 1,78
3f	Drain plug	1						-	G 3	3/8"		./2"
									with bon	ided seal	with bon	ded seal
3g	Protective seal	1	0102	6521	0102	6521	0102	6509	0102	26510		-
3h	Bp or no Bp O-Ring	1	0-R 121	(90 Sh A)	0-R 121	(90 Sh A)	0-R 3087	(90 Sh A)	0-R 3143	(90 Sh A)	0-R 3143	(90 Sh A)
On	Bp of the Bp o tuning	_	Ø 15,88	x 2,62	Ø 15,88	x 2,62	Ø 21,89	x 2,62	Ø 36,14	x 2,62	Ø 36,14	x 2,62
3m	Bp or no Bp O-Ring	1	0-R 2	2031	0-R 2	2031	0-R 2	2037	0-R :	3106	0-R :	3106
0	Bp of the Bp o tuning	_	Ø 7,66	x 1,78	Ø 7,66	x 1,78	Ø 9,25	x 1,78	Ø 26,65	5 x 2,62	Ø 26,65	5 x 2,62
3n	Connection seal	2	0-R 3	3081	0-R 3	3081	0-R 3	3093	0-R	4137	0-R 4	4137
011	Connection Scar		Ø 20,24	x 2,62	Ø 20,24	x 2,628	Ø 23,67	x 2,62	Ø 34,52	2 x 3,53	Ø 34,52	2 x 3,53
4	Indicator connection plug	1	T2H	T2V	T2H	T2V	T2H	T2V	T2H	T2V	T2H	T2V
5	Bypass assembly	1	02001400	02001401	02001400	02001401	02001404	02001405	02001408	02001409	02001408	02001409
6	Non-Bypass assembly	1	02001402	02001403	02001402	02001403	02001406	02001407	02001410	02001411	02001410	02001411

_		_
ĺ	3	2
ı	4	J
ı		
i		4
i	ī	
:		
ļ	4	J
ſ	ב	2
:		3
7	7	
		0
ì	i	
í		
	֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֓֓֓֜֜֜֜֜֜֜	
		ים בים

The data in this publication are purely guideline. MP Filtri reserves the right to make changes to the models described herein at any time it deems fit in relation to technical or commercial requirements. The colours of the products shown on the cover are purely guideline. Copyright. All rights reserved.

Refon

1 - Style

Filter	Filter element
006	§ See below
007	065
010	065
050	050
065	065
135	135
320	320
500	500

2 - Filter length

006	1				
007		2	3		
010		2	3		
050	1	2	3	4	5
065	1	2	3		
135	1	2	3		
320	1	2	3	4	
500	1	2	3	4	5

3 - Valves

S	Without bypass
В	With bypass
T	Without bypass + check valve*
D	With bypass + check valve*

^{*}Reduced cross-section oilways

N.B. Style 006 - 007 - 010 are available only in "S" version without bypass.

4 - Filter seals

Α	7	NBR
V	7	FPM

5 - Connections

Manifold

Туре	Size FHM 006 - 007 - 010		
G1	Housing side "A"		
G2	Housing side "B"		
Tyne	Size		

Type FHM 050 - 065 - 135 - 320 - 500 F1

6 - Filter element

			_	٦
F	103	Inorganic microfibre	3 µm	
P	406	Inorganic microfibre	6 μm	Absolute filtration Inorganic
A	\10	Inorganic microfibre	1 0 μm	Microfibre
1	11 6	Inorganic microfibre	16 μm	ßx (c) ≥ 1000
A	\25	Inorganic microfibre	25 μm _	BX (C) ≥ 1000
N	/125	Wire mesh 25 μm	-	Nominal Filtration

7 - Max filter element differential pressure

	N	Δp 20 bar (excluded FHM 006 - 007 - 010)
Н		Δp 210 bar
S		Ap 210 bar (only for FHM 050 - 500)

8 - Option

a - Filter

P01	MP Filtri standard
P02	Maintenance from base of housing (only FHM 320 length 4 - FHM 500 length 4/5)
Pxx	Customer request

b - Filter element

P01	MP Filtri standard
Pxx	Customer request

§ Filter element for FHM 006:

"x"= seal	
•HP 011 3 A10 x H P01	•HP 011 3 M25 x H P01
•HP 011 3 A06 x H P01	•HP 011 3 A26 x H P01
•HP 011 3 A03 x H P01	•HP 011 3 A16 x H P01

Α	NBR
V	FPM

Indicator plug

Phosphated Steel plug T2 has to be ordered separately.

Code

T2H	Seal NBR	
T2V	Seal FPM	

For Clogging Indicator: See page 318