

Standard	hoses - 7	20 bars								↓
model	H 1 SOU	H 2 SOU	H 3 SOU	H 4 SOU	H 5 SOU	H 6 SOU	H 8 SOU	H 10 SOU	H 15 SOU	H 20 SOU
art no	100.572.101	100.572.102	100.572.103	100.572.104	100.572.105	100.572.106	100.572.108	100.572.110	100.572.115	100.572.120
length m	1	2	3	4	5	6	8	10	15	20

Extension	hoses - 720 ba	rs				V
model	VL 1 SOU	VL 2 SOU	VL 5 SOU	VL 10 SOU	VL 15 SOU	VL 20 SOU
art no	100.572.301	100.572.302	100.572.305	100.572.310	100.572.315	100.572.320
length m	1	2	5	10	15	20

Specifications / important properties

- single hoses with:
 - 3/8" NPT male screw thread on both sides
 - anti-kink springs on both sides
 - 4:1 safety ratio
 - colour: orange
- standard hoses provided with:
 - idem single hoses
 - coupler male, A 119 on 1 side
- extension hoses with:
 - idem single hoses
 - coupler male, A 119 on 1 side
 - coupler female, A 118 on the other side

Available on request

- different lengths
- other colour

(1) single hose (2) standard hose (3) extension hose





istry couplers - 720 bais		
description	model	art no
High Flow coupler, female, including steel dust cap connection: 3/8" NPT, male fits: A 119	A 118	100.181.118
High Flow coupler, male, including steel dust cap	A 119	100.181.119
High Flow coupler, female, like A 118, with built-in pressure relief valve • adjusted to ca. 750 bars • fits: A 119	A 418	100.181.418
High Flow coupler, female, like A 118, with built-in non-return valve • suitable for hose rupture security • not to be used with double-acting systems • fits: A 119	A 134 N	100.181.434
loose steel dust cap • with fixing thread • fits: A 118	A 118 SK	100.181.828
loose steel dust cap • with fixing thread • fits: A 119	A 119 SK	100.181.829
relief valve • for reducing any remnant pressure • suitable for: A 118	-	100.181.840
relief valve • for reducing any remnant pressure • suitable for A 119	-	100.181.841
	description High Flow coupler, female, including steel dust cap	High Flow coupler, female, including steel dust cap

Pressure gaug	jes - 720 bars		
image	description	model	art no
	universal pressure gauge olimits 0 - 720 bars housing Ø 100 mm connection: ½" NPT male	A 500	100.582.500
	rubber protection cover • suitable for ∅ 100 mm pressure gauges	-	350.581.160
(2)	pressure gauge plug-in set • connection: couplers A 118 - A 119	A 111 U	100.582.111
	pressue gauge • 0 - 720 bars • housing Ø 60 mm • connection: ¼" NPT male	A 150	100.581.036
	rubber protection cover • suitable for ∅ 60 mm pressure gauges	-	350.581.152
Pro)	pressure gauge digital • 0 - 720 bars • peak pressure memory • connection: 1/4" BSP male	-	150.581.091

Pressue	gauges wit	h scale d	ivision in	ton - 720	bars				<u> </u>
pressure gauge	pressure gauge	1 st scale from - to	1 st scale division per mark	2 nd scale from - to	2nd scale division per mark	3rd scale from - to	3rd scale division per mark	4 th scale from - to	4th scale division per mark
model	art no	t	kg	t	kg	t	kg	t	kg
A 501	100.582.501	0 - 5	100	0 - 11	200	0 - 21	500	-	-
A 502	100.582.502	0 - 25	500	0 - 33	500	0 - 51	1000	-	-
A 503	100.582.503	0 - 52	1000	0 - 77	1000	-	-	-	-
A 504	100.582.504	0 - 105	2000	0 - 160	2000	-	-	-	-
A 505	100.582.505	0 - 210	5000	0 - 305	5000	-	-	-	-
A 506	100.582.506	0 - 509	10000	0 - 382	10000	-	-	-	-
A 507	100.582.507	0 - 6	100	0 - 13	200	0 - 23	500	-	-
A 508	100.582.508	0 - 30	500	0 - 47	1000	0 - 63	1000	0 - 113	2000
A 509	100.582.509	0 - 63	1000	0 - 104	2000	-	-	-	-
A 510	100.582.510	0 - 12	200	0 - 31	500	0 - 63	2000	0 - 98	2000



image	description	model	art no
N. Electrical Control of the Control	pressure gauge connecting block • suitable for single-acting hand pumps • provided with: 1 x 3/8" NPT female, 1 x 3/8" NPT male and ½" NPT female for pressure gauge • pressure gauge can be placed in an angle of 45° using elbow art no 100.581.240	A 108	100.181.108
	pressure gauge connecting block for H/FTW *800 pumps • suitable for double-acting control valve M 321 • supplies pressure to port A or B, dependent on mounting • provided with: 1 x ½" NPT female	M 306	100.182.306
	pressure gauge connecting block for H/FTW *800 pumps • suitable for double-acting control valve M 321 • supplies pressure to port A or B, dependent on which is highest • provided with: 1 x ½" NPT female	M 307	100.182.307
	pressure gauge for Vari pumps • suitable for double-acting control valves M 322, M 323, M 324 and M 325 • supplies pressure to port A or B, dependent on which is highest • provided with: 1 x ½" NPT female	M 308	100.182.308

Specifications / important properties



- pressure gauges:
 - pointer damped with glycerine
 - stainless steel
 - protection cover available for all models (except digital pressure gauge)



A 108 + A 500 + hose mounted on pump



Pump + M 321 + M 307 + A 500 (seperate: M 306 + A 500)

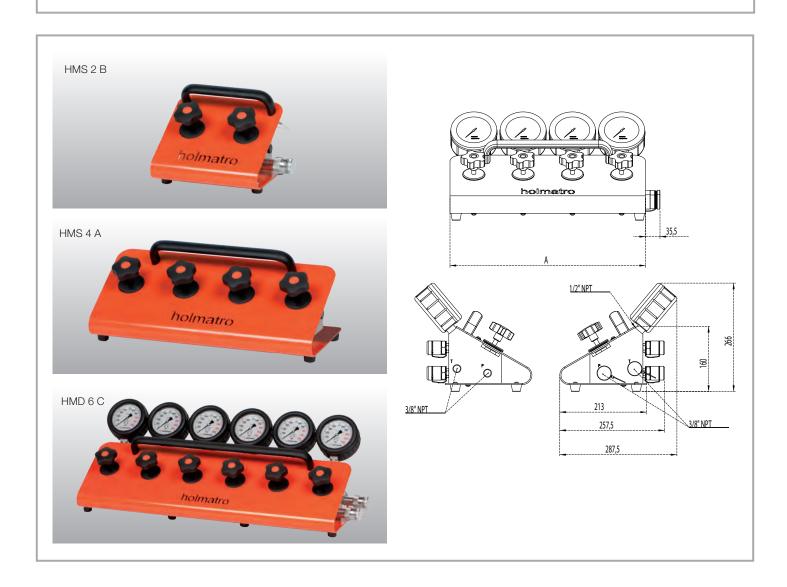


TECHNICAL SPECIFICATION SHEET | FlowPanel™ control manifolds | HMS / HMD



Specific	ation	s FlowPane	el™ control n	nanifolds - sir	ngle acting -	720 bars				1
model		HMS 2 A	HMS 2 B	HMS 2 C	HMS 4 A	HMS 4 B	HMS 4 C	HMS 6 A	HMS 6 B	HMS 6 C
article numb	er	100.172.048	100.172.049	100.172.050	100.172.045	100.172.046	100.172.047	100.172.052	100.172.053	100.172.054
outlet ports		2	2	2	4	4	4	6	6	6
couplers		-	$\sqrt{}$	√	-	√	√	-	√	√
pressure g	auges	-	-	√	-	-	V	-	-	V
A	mm	238	238	238	480	480	480	722	722	722
weight	kg	6.2	7.1	9.0	12.5	13.9	17.8	18.5	20.5	26.6

Specification	s FlowPan	el™ control n	nanifolds - do	ouble acting -	720 bars				1
model	HMD 2 A	HMD 2 B	HMD 2 C	HMD 4 A	HMD 4 B	HMD 4 C	HMD 6 A	HMD 6 B	HMD 6 C
article number	100.172.042	100.172.043	100.172.044	100.172.039	100.172.040	100.172.041	100.172.055	100.172.056	100.172.057
outlet ports	2	2	2	4	4	4	6	6	6
couplers	-	V	V	-	√	√	-	√	√
pressure gauges	-	-		-	-		-	-	
A mm	238	238	238	480	480	480	722	722	722
weight kg	7.2	8.1	10.0	14.2	15.6	19.7	21.0	23.0	29.1



/alves - 720	bars			•
mage	hydraulic scheme	description	model	art no
1		needle valve • for more accurate control of the oil flow, also under maximum pressure • connection: 3/8" NPT female (2x)	A 109 N	100.581.609
		ball valve very suitable for quick shut-off valve (open-close) can be operated under maximum pressure connection: 3/8" NPT female (2x)	A 195	100.581.200
0	- 	needle valve, as mounted on valve blocks • for accurate control of the oil flow, also under maximum pressure • connection: 3/8" NPT male and 3/8" NPT female	A 130	100.181.130
		breaking safety (load security) valve • protects against sudden pressure drop in the supply pipe, for example in case of hose rupture • to be mounted between pump and cylinder as close to the cylinder as possible • provided with pressure relief valve, set at 830 bars • while pumping: valve closed, safety valve active • for relief: open valve, safety valve not active • connection: 3/8" NPT female and 3/8" NPT male	A 110	100.181.110
		High Flow coupler, female, like A 118, with built-in non-return valve • suitable for hose rupture security • not to be used with double-acting systems • fits: A 119	A 134 N	100.181.434
		non-return valve • spring-loaded • connection: 3/8" NPT male (2x)	A 209	100.581.209
3	M.	pressure relief valve • set to 750 bars • connection: 1x 3/8" NPT female and 1x 3/8" NPT male	A 135	100.181.135



Accessories hydraulics



Acces	sories hydraulics - 720 bars	↓
no	description	art no
	45° elbow with 1x 1/2" NPT (T) female and 1x 1/2" NPT (T) male	100.581.240
1	adjustable pin key, complete with 4 pairs of exchangeable pins	100.581.132
2	cross piece with 4x 3/8" NPT (T) female	100.581.139
3	T-piece with 3x 3/8" NPT (T) female	100.581.106
4	swivel connector with 1x 3/8" NPT (T) male and 1x 3/8" NPT (C) female	100.581.115
5	90° elbow with 1x 3/8" NPT (T) female and 1x 3/8" NPT (T) male	100.581.113
6	90° elbow with 2x 3/8" NPT (T) male	100.581.213
7	45° elbow with 1x 3/8" NPT (T) female and 1x 3/8" NPT (T) male	100.581.114
8	90° bend with 1x 1/4" BSP (C) female swivel nut and 1x 1/4" BSP (V) male	150.581.219
9	straight tube coupling for 12 mm tube with 3/8" NPT (T) male	100.581.136
10	90° tube coupling for 12 mm tube with 3/8" NPT (T) male	100.581.137
11	plug with 3/8" NPT (T)	100.581.105
12	sealing ring for M12 (V)	190.593.275
	sealing ring for 1/4" BSP (V)	150.581.230
	sealing ring for M14 (V)	190.593.075
	sealing ring for M18 (V)	100.581.158
13	manifold, model A 125, with 5 interconnected ports with 3/8" NPT female	100.181.125
	T = Teflon seal V = flat seal C = cone seal	





Assembly materials - 720 ba	rs			
mage	type	thread A	thread B	art no
	connection socket	1/4" NPT (T) 1/4" NPT (T) 1/4" BSP (V) 3/8" NPT (T) 3/8" NPT (T)	1/4" NPT (T) 1/4" BSP (V) M18x1.5 (V) 3/8" NPT (T) M18x1.5 (V)	100.581.238 150.581.228 100.181.227 100.581.102 100.181.228
	reducing bushing	1/4" NPT (T) 3/8" NPT (T) 3/8" NPT (T) 1/8" BSP (V)	3/8" NPT (T) 1/2" NPT (T) 3/4" NPT (T) 1/2" BSP (V)	100.581.128 100.581.103 100.581.133 150.581.085
	nipple	1/8" NPT (V) 1/4" NPT (T) 1/4" NPT (T) 1/4" BSP (V) 1/4" BSP (V) 1/4" BSP (V) 1/4" BSP (V/C) 1/4" BSP (V/C) 1/4" BSP (V) 1/4" BSP (V) 1/4" BSP (V) 3/8" NPT (T) 1/2" BSP (V) 1/4" NPT (T) 3/8" NPT (T) 1/2" BSP (V) 1/4" NPT (T) 1/2" BSP (V) 1/4" NPT (T)	1/4" BSP (V) 1/4" BSP (V) M14x1,5 (V) M14x1,5 (V/C) M14x1,5 (V/C) M14x2 (V) 1/4" BSP (V/C) 3/8" NPT (T) M14x2 (V) 1/2" NPT (T) M10x1 (V) 3/8" BSP 3/8" NPT (V) 1/4" NPT (T)	110.013.004 150.581.227 100.581.226 110.013.044 100.581.211 100.181.156 150.581.216 150.581.218 100.581.101 100.181.151 150.581.088 110.013.005 150.581.244 100.581.233 150.581.087
Å I	connector	1/4" BSP (V) 1/4" BSP (V) 1/4" BSP (V) 3/8" NPT (T) 3/8" NPT (T) 3/8" NPT (T) 1/4" NPT (T) M14x1,5 (V) M14x1.5 (V) M18x1.5 (V) M18x1.5 (V) 3/8" NPT (T) 1/4" BSP (V)	1/4" NPT (T) 3/8" BSP (C) M14 x 2 (V) 1/4" BSP (V) 1/4" NPT (T) M14 x 2 (V) 3/8" NPT (T) 3/8" NPT (T) 1/4" BSP (V) 3/8" NPT (T) 1/4" BSP (V) 3/8" NPT (T) 1/4" BSP (V) 3/8" NPT (T)	100.181.223 100.581.235 100.181.159 150.581.217 100.581.107 100.181.153 100.581.104 100.181.129 150.581.058 100.181.154 100.181.157 100.181.047 150.000.398





Oils		\
image	description	art no
	hydraulic oil ECO Power ISO VG 36, DIN 51524.3 HVLP, bottle 1 litre	180.000.857
Acc	hydraulic oil ECO Power ISO VG 36, DIN 51524.3 HVLP, bottle 5 litres	180.000.815
	hydraulic oil ECO Power ISO VG 36, DIN 51524.3 HVLP, drum 60 litres	130.103.025
	properties: • fully mineral oil • biodegradable (OECD 301F) • optimum lubricating properties • excellent protection against wear and corrosion • up to 3x longer service life than the leading hydraulic oils • no deposit and contamination because no aromatics and hydrocarbons • recommended for ambient temperature > -10 °C	
	hydraulic oil ECO Power ISO VG 15, DIN 51524.3 HVLP, bottle 1 litres	100.581.051
Power Power	hydraulic oil ECO Power ISO VG 15, DIN 51524.3 HVLP, bottle 5 litres properties: • fully mineral oil • biodegradable (OECD 301F) • optimum lubricating properties • excellent protection against wear and corrosion • up to 3x longer service life than the leading hydraulic oils • no deposit and contamination because no aromatics and hydrocarbons • recommended for ambient temperature < -10 °C	100.581.055
	motor oil 10 W 30, API SJ/CH-4, bottle 0.6 litre properties: • very good detergent and dispersant • optimum protection against wear, corrosion and foam • high and stable viscosity • low sulphate ash content	150.581.103



Lubricants		
image	description	art no
Control of	Molykote grease paste	100.581.081
	high-quality Molykote grease for metal/metal combinations at slow to fast movements with medium to heavy load cartridge 400 g	100.581.082
	brake cleaner (degreasant) Motip for cleaning and pre-treatment of surfaces spray can 500 ml	170.000.252
NE O	Teflon lubricating oil Sir John • high-quality lubricant and maintenance oil • spray can 400 ml	150.581.095
Sign of the state	anti-friction coating Bel Ray • dry spray coating for protection under dusty, dirty and abrasive conditions • spray can 400 ml	150.581.093

