Release: MDTools Library 2024

Modified Cavities:

S. No	Library Name	Cavity/Footprint Name	Operations	Dot Inch	Dot MM	Comma MM
1	Hawe SICV Cavities	BEV3-Z	Cavity name rectified from BEV3-Z to BVE3-Z Step4 Depth is rectified as 1.937" (49.2 mm) Step5 Dia is rectified as 0.591" (15 mm) Step6 Dia is rectified as 0.551" (14 mm) Step6 Depth is rectified as 2.441" (62 mm) Port1 Depth rectified as 2.012" (51.1 mm)	❶	❶	❶
2	Parker	CDD-1010	Step2 Depth rectified as 0.5" (12.7 mm) Step3 Dia rectified as 0.72" (18.3 mm) Step5 Dia rectified as 0.752" (19.1 mm) Step4 Dia rectified as 0.877" (22.28 mm) Step12 Depth rectified as 3" (75 mm)	❶	❶	❶
3	Hydraforce	VC07-03	Step1 Angle rectified as 60 Deg Port2 Depth rectified as 0.95" (24.13 mm) Port3 depth rectified as 0.388" (9.86 mm) Step4 Angle rectified as 20 Deg Step5 Angle rectified as 20 Deg	❶	❶	❶
4	Eaton	A16927	Step12 Depth rectified as 1.181" (30 mm) Port1 Depth rectified as 0.906" (23 mm)	❶	❶	❶
5	SAE Flanges-J518	1" Code 61	Step0 Dia corrected to 1" (25.6 mm) All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	❶	❶	❶

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
5	SAE Flanges-J518	1" Code 62	Step0 Dia corrected to 1" (25.6 mm) All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	0	0	0
		1/2" Code 61	All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	0	0	0
		1/2" Code 62	Step0 Dia corrected to 0.5" (13 mm) All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	0	0	0
		1-1/2" Code 61	Step0 Dia corrected to 1.5" (38.2 mm) All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	0	0	0
		1-1/2" Code 62	Step0 Dia corrected to 1.5" (38.2 mm) All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	0	0	0
		1-1/4" Code 61	All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	0	0	0
		1-1/4" Code 62	All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	0	0	0
		2" Code 61	All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	0	0	0
		2" Code 62	All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	0	0	0

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
5	SAE Flanges-J518	2-1/2" Code 61	Step0 Dia corrected to 2.5" (63.5 mm) All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	**0**	**0**	**0**
		2-1/2" Code 62	Step0 Dia corrected to 2.5" (63.5 mm) All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	**0**	**0**	**0**
		3" Code 61	Step0 Dia corrected to 3" (76.2 mm) All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	**0**	**0**	**0**
		3" Code 62	All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	**0**	**0**	**0**
		3/4" Code 61	Step0 Dia corrected to 0.75" (19.2 mm) All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	**0**	**0**	**0**
		3/4" Code 62	Step0 Dia corrected to 0.75" (19.2 mm) All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	**0**	**0**	**0**
		3-1/2" Code 61	All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	**0**	**0**	**0**
		4" Code 61	Step0 Dia corrected to 4" (101.6 mm) All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	**0**	**0**	**0**

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
5	SAE Flanges-J518	5" Code 61	All Bolt Hole X and Y coordinates & cavity outline dimensions have been updated as per the revised SAE J518 standard.	❶	❶	❶

Newly Introduced Cavities:

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
1	Argo-Hytos	QJ2	Newly Introduced	❶	❶	❶
		VPPB-R-16				
		VPP-R-16				
		VPPB-R-25				
		VPP-R-25				
2	ATOS	CART LEH-2				
		CART LEH-3				
		CART LEHM-3				
		CART RZME-A				
		DB-10/G				
		DB-15/G				
		DB-5/G				
3	Brevini	CA012001	Newly Introduced	❶	❶	❶
		CD018001				
		CD018003				
		CD018006				
		CD018009				
		CD018013				
		CD018014				
		CD019006				
		CD019007				
		CG001002				
		CG003004				

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
3	Brevini	CN019002	Newly Introduced	❶	❶	❶
		CN033001				
		CN036001				
		CN037003				
		CN037004				
		CN041009				
		CN044001				
		CN047002				
		CN047003				
		CN059001				
		CN070001				
		CD018005				
		CD018012				
		CD018015				
		CD019011				
		CA007001				
		CN032005				
		CN044003				
		CN051001				
4	Bucher Hydraulics	CINDY-16-B-P	Newly Introduced	❶	❶	❶
		CINDY-12-B-P				
		CINDY-20-B-P				
		CA 16				
		DERV-8				
		DERV-10				
		HF/C1220A				
		RVP-16				
		RVP-22				
		UVP-4				
5	CBF Hydraulic	CAV00114	Newly Introduced	❶	❶	❶
6	Walvoil	16/3Q	Newly Introduced	❶	❶	❶
		9/2 A				

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
7	Duplomatic	VR3-P				
		VR5-P				
		VR7-P				
		PRK10				
		RQA5-P				
		RQA7-P				
8	Fluid-Press	FPRI-1/2	Newly Introduced	❶	❶	❶
		FPRI-1/4				
		FPRI-3/4				
		FPRI-3/8				
		FPTI-1/4				
		FPTI-1/8				
		FPP-1				
		FPP-1/2				
		FPP-3/4				
		FPP-3/8				
		FPP-1/4				
9	Hawe SICV Cavities	ADC 1	Newly Introduced	❶	❶	❶
		ADME 1				
		AV 2E				
		AV 3E				
		BC 1				
		BC 2				
		BC 3				
		BVE 1Z				
		BVE 3R(S)				
		CLK 3				
		CQ2/CQR2				
		CRH 11				
		FG				
		MVE13-14				
		MVK 4				

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
9	Hawe SICV Cavities	Q20	Newly Introduced	❶	❶	❶
		Q30				
		Q40				
		Q50				
		Q60				
		RK 6				
		RK/B08				
		SB 5C				
		SB/SQ 1C				
		SB/SQ 2C				
		SB/SQ 3C				
		MVK 5				
		MVK 6				
10	Hawe Valve Interface	ADM 11 P	Newly Introduced	❶	❶	❶
		ADM 22 P				
		ADM 33 P				
		ALZ 4P				
		ALZ 5P				
		CDK 3P				
		DSVP 21-1				
		LV 10P				
		LV 20P				
		MVD 4				
		SVP30-34				
		SVP6				
		VDM 4P				
		VDM 5P				
		BVE 5				
		MVD 5				
		MVD 6				
11	Parker	MVI 400	Newly Introduced	❶	❶	❶
		MVI 600				
		MVI 800				

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
11	Parker	MVI 1200	Newly Introduced	❶	❶	❶
		SPZBE 16				
		SPZBE 25				
		SPZBE 32				
		C12-2F				
		DUR				
		NS 400				
		NS 600				
		NS 800				
		NS 1200				
		NS 1600				
		FS 1200				
		FS 400				
		FS 600				
		FS 800				
		FS 1600				
		SSR-06				
		SSR-10				
		2C				
		2U				
		SPZBE 40				
		SPZBE 50				
12	Screw-In Cartridge-ISO 17209	1 1/16-01-0-13	Newly Introduced	❶	❶	❶
		1 1/16-01-1-13				
		1 1/16-02-0-13				
		1 1/16-03-0-13				
		1 1/16-04-0-13				
		1 5/16-01-0-13				
		1 5/16-02-0-13				
		1 5/16-03-0-13				
		1 5/16-04-0-13				
		1 5/8-01-0-13				
		1 5/8-02-0-13				

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
12	Screw-In Cartridge-ISO 17209	1 5/8-03-0-13	Newly Introduced	**0**	**0**	**0**
		1 5/8-04-0-13				
		3/4-01-0-13				
		3/4-02-0-13				
		3/4-03-0-13				
		3/4-04-0-13				
		7/8-01-0-13				
		7/8-02-0-13				
		7/8-03-0-13				
		7/8-04-0-13				
13	Donaldson	PFH62M	Newly Introduced	**0**	**0**	**0**
14	Dynex	VHR/VHD	Newly Introduced	**0**	**0**	**0**
		VHU				
16	Rexroth	CETOP-RP 121 H-4.2-4-P02	Newly Introduced	**0**	**0**	**0**

Date: Nov 25, 2024

Release: MDTools Library 2024

Modified Cavities:

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
1	AVIT	FA-100-0	Step0 Dia & Depth rectified as 5.315" (135 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-100-2	Step0 Dia & Depth rectified as 5.315" (135 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-100-3	Step0 Dia & Depth rectified as 6.614" (168 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-100-4	Step0 Dia & Depth rectified as 6.614" (168 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-100-5	Step0 Dia & Depth rectified as 8.465" (215 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-100-6	Step0 Dia & Depth rectified as 8.583" (218 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-10-3	Step0 Dia & Depth rectified as 1.102" (28 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-10-4	Step0 Dia & Depth rectified as 1.102" (28 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-12-2	Step0 Dia & Depth rectified as 1.102" (28 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-125-0	Step0 Dia & Depth rectified as 6.614" (168 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-125-2	Step0 Dia & Depth rectified as 6.614" (168 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
1	AVIT	FA-125-3	Step0 Dia & Depth rectified as 8.071" (205 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-125-4	Step0 Dia & Depth rectified as 8.071" (205 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-125-5	Step0 Dia & Depth rectified as 10.748" (273 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-125-6	Step0 Dia & Depth rectified as 10.827" (275 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-150-0	Step0 Dia & Depth rectified as 8.071" (205 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-150-2	Step0 Dia & Depth rectified as 8.071" (205 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-150-3	Step0 Dia & Depth rectified as 9.646" (245 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-150-4	Step0 Dia & Depth rectified as 9.646" (245 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-150-5	Step0 Dia & Depth rectified as 12.913" (328 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-150-6	Step0 Dia & Depth rectified as 13.386" (340 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-16-2	Step0 Dia & Depth rectified as 1.496" (38 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-16-3	Step0 Dia & Depth rectified as 1.496" (38 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-16-4	Step0 Dia & Depth rectified as 1.496" (38 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
1	AVIT	FA-16-5	Step0 Dia & Depth rectified as 1.811" (46 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-16-6	Step0 Dia & Depth rectified as 1.969" (50 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-175-3	Step0 Dia & Depth rectified as 12.598" (320 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-175-4	Step0 Dia & Depth rectified as 12.598" (320 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-200-2	Step0 Dia & Depth rectified as 9.646" (245 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-200-3	Step0 Dia & Depth rectified as 13.386" (340 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-200-4	Step0 Dia & Depth rectified as 13.386" (340 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-200-5	Step0 Dia & Depth rectified as 16.772" (426 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-20-2	Step0 Dia & Depth rectified as 1.496" (38 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-20-3	Step0 Dia & Depth rectified as 1.811" (46 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-20-4	Step0 Dia & Depth rectified as 1.811" (46 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-20-5	Step0 Dia & Depth rectified as 2.165" (55 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-20-6	Step0 Dia & Depth rectified as 2.48" (63 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
1	AVIT	FA-225-4	Step0 Dia & Depth rectified as 15.118" (384 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-25-0	Step0 Dia & Depth rectified as 1.811" (46 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-250-4	Step0 Dia & Depth rectified as 16.693" (424 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-25-2	Step0 Dia & Depth rectified as 1.811" (46 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-25-3	Step0 Dia & Depth rectified as 2.165" (55 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-25-4	Step0 Dia & Depth rectified as 2.165" (55 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-25-5	Step0 Dia & Depth rectified as 2.48" (63 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-25-6	Step0 Dia & Depth rectified as 2.992" (76 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-32-0	Step0 Dia & Depth rectified as 2.165" (55 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-32-2	Step0 Dia & Depth rectified as 2.165" (55 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-32-3	Step0 Dia & Depth rectified as 2.362" (60 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-32-4	Step0 Dia & Depth rectified as 2.362" (60 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-32-5	Step0 Dia & Depth rectified as 2.992" (76 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
		FA-32-6	Step0 Dia & Depth rectified as 3.543" (90 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-40-0	Step0 Dia & Depth rectified as 2.362" (60 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-40-2	Step0 Dia & Depth rectified as 2.362" (60 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-40-3	Step0 Dia & Depth rectified as 2.992" (76 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-40-4	Step0 Dia & Depth rectified as 2.992" (76 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-80-0	Step0 Dia & Depth rectified as 4.331" (110 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
1	AVIT	FA-80-2	Step0 Dia & Depth rectified as 5.315" (135 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-80-3	Step0 Dia & Depth rectified as 5.315" (135 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-80-4	Step0 Dia & Depth rectified as 5.315" (135 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-80-5	Step0 Dia & Depth rectified as 6.772" (172 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-80-6	Step0 Dia & Depth rectified as 7.165" (182 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-90-0	Step0 Dia & Depth rectified as 5.315" (135 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-90-5	Step0 Dia & Depth rectified as 8.071" (205 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
1	AVIT	FA-40-5	Step0 Dia & Depth rectified as 3.622" (92 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-40-6	Step0 Dia & Depth rectified as 4.331" (110 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-50-0	Step0 Dia & Depth rectified as 2.992" (76 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-50-2	Step0 Dia & Depth rectified as 2.992" (76 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-50-3	Step0 Dia & Depth rectified as 3.622" (92 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-50-4	Step0 Dia & Depth rectified as 3.622" (92 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-50-5	Step0 Dia & Depth rectified as 4.331" (110 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-50-6	Step0 Dia & Depth rectified as 4.921" (125 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-65-0	Step0 Dia & Depth rectified as 3.622" (92 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-65-2	Step0 Dia & Depth rectified as 3.622" (92 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-65-3	Step0 Dia & Depth rectified as 4.331" (110 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-65-4	Step0 Dia & Depth rectified as 4.331" (110 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-65-5	Step0 Dia & Depth rectified as 5.315" (135 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
1	AVIT	FA-65-6	Step0 Dia & Depth rectified as 6.063" (154 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
		FA-70-5	Step0 Dia & Depth rectified as 5.827" (148 mm) & 0.79" (2mm) and Step12 added in DH	❶	❶	❶
2	Bucher Hydraulics	CA	Step2 Diameter rectified as 0.717" (18.2 mm) Step12 Diameter & depth rectified as 0.354" (9 mm) & 1.575" (40 mm) Port2 depth rectified to 1.417" (36 mm) & Step6 added	❶	❶	❶
3	Eaton	CG02	Step0 Dia rectified as 0.189" (4.8mm), Bolt Holes dimensions rectified as per 3/8-16 UNC Standard and the dimensions of all BHs have been rounded to one decimal places		❶	❶
		CG03	Step0 Dia rectified as 0.441" (11.2 mm), Port V Dia rectified as 0.189" (4.8 mm), Locating Pin Dia & Depth rectified as 0.28" (7.1 mm) & 0.311" (7.9 mm), Bolt Holes dimensions rectified as per 1/2-13 UNC Standard and the dimensions of all BHs have been rounded to one decimal places		❶	❶
		CG06	Step0 Dia rectified as 0.874" (22.2 mm), Port V Dia rectified as 0.189 (4.8 mm), Locating Pin Dia & Depth rectified as 0.281" (7.14 mm) & 0.311" (7.9 mm), Bolt Holes dimensions rectified as per 5/8-11 UNC Standard and the dimensions of all BHs have been rounded to two decimal places		❶	❶
		CG10	Locating Pin Dia & Depth rectified as 0.281" (7.14 mm) & 0.311" (7.9 mm) and Bolt Holes dimensions rectified as per 3/4-10 UNC Standard		❶	❶

S. No	Library Name	Cavity/Footprint Name	Operations	Dot Inch	Dot MM	Comma MM
4	Hawe Valve Interface	G (Z)3-1	In all Bolt Hole Step0 Dia & Depth rectified as 0.256" (6.5 mm) & 0.059" (1.5 mm), Step12 depth rectified as 0.787" (20mm) and Step1 added	❶	❶	❶
5	Metric Ports-ISO 6149-1	ISO 6149-1-M10 X 1	Plug Head Height rectified as 0.157" (4 mm)	❶	❶	❶
		ISO 6149-1-M12 X 1.5	Plug Head Height rectified as 0.197" (5 mm)	❶	❶	❶
		ISO 6149-1-M14 X 1.5	Plug Head Height rectified as 0.197" (5 mm)	❶	❶	❶
		ISO 6149-1-M16 X 1.5	Plug Head Height rectified as 0.197" (5 mm)	❶	❶	❶
		ISO 6149-1-M18 X 1.5	Plug Head Height rectified as 0.197" (5 mm)	❶	❶	❶
		ISO 6149-1-M22 X 1.5	Plug Head Height rectified as 0.197" (5 mm)	❶	❶	❶
		ISO 6149-1-M27 X 2	Plug Head Height rectified as 0.197" (5 mm)	❶	❶	❶
		ISO 6149-1-M33 X 2	Plug Head Height rectified as 0.276" (7 mm)	❶	❶	❶
		ISO 6149-1-M42 X 2	Plug Head Height rectified as 0.276" (7 mm)	❶	❶	❶
		ISO 6149-1-M48 X 2	Plug Head Height rectified as 0.276" (7 mm)	❶	❶	❶
		ISO 6149-1-M60 X 2	Plug Head Height rectified as 0.276" (7 mm)	❶	❶	❶
		ISO 6149-1-M8 X 1	Plug Head Height rectified as 0.138" (3.5 mm)	❶	❶	❶
6	Integrated Hydraulics	A16102	Step5 Depth and Angle rectified as 3.234" (82.15 mm) & 90 degree and Step6 removed	❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
6	Integrated Hydraulics	A3145	Step6 depth and angle rectified as 3.234" (82.15 mm) & 90 degree, Port1 depth rectified as 3.234" (82.15 mm)	❶	❶	❶
7	Rexroth	FB	Undercut details added	❶	❶	❶
		FC	Undercut details added	❶	❶	❶
		FK	Undercut details added	❶	❶	❶
		YHK	L.S step & Depth added Undercut added, Port1 Depth rectified as 2.283" (58 mm)	❶	❶	❶
8	Sun Hydraulics	T-5A	Step7 angle rectified as 90°	❶		
9	VIS Hydraulics	VH039	Step12 Diameter & Depth rectified as 0.472" (12 mm) & 1.575" (40 mm), Step5 obsoleted and Undercuts added	❶	❶	❶
		VH095	Undercut added	❶	❶	❶
10	Wandfluh	1-1367.4	Step8 Depth & Angle rectified as 6.161" (156.5 mm) & 90 degree, Step9 added, Port 1 Dia & Depth rectified as 0.63" (16 mm) & 5.217" (132.5 mm), Port 2 Depth rectified as 4.075" (103.5 mm), Port 3 Depth rectified as 2.972" (75.5 mm), Port 4 Depth rectified as 1.87" (47.5 mm), Port 5 Dia removed & Depth rectified as 6.516" (165.5 mm), Port 6 Depth rectified as 0.571" (14.5 mm)	❶	❶	❶
11	Oleoweb	SAE16/4	Step6 Depth rectified as 4.094" (104 mm) Port1 Depth rectified as 4.094" (104 mm)	❶	❶	❶

Newly Introduced Cavities:

S. No	Library Name	Cavity/Footprint Name	Operations	Dot Inch	Dot MM	Comma MM
1	Bucher Hydraulics	CSRCB3	Newly Introduced	**0**	**0**	**0**
		GB3WM33				
		ERV 8 Variant 1				
		ERV 8 Variant 2				
		BBV-6				
		CINDY-25-B-P				
		ERVH-1				
		ERVH-2				
		ERVH-3				
		ERVH-4				
		ERVH-5				
		REG-01-04				
		REG-01-06				
		REG-01-08				
		REG-01-10				
		REG-01-16				
		REG-01-25				
		REG-01-32				
		REG-01-40				
		REG-02-04				
		REG-02-06				
		REG-02-08				
		REG-02-10				
		REG-02-16				
		REG-03-04				
		REG-03-04-ST				
		REG-03-06				
		REG-03-06-ST				
		REG-03-08				
		REG-03-08-ST				
		REG-03-10				
		REG-03-10-ST				

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
1	Bucher Hydraulics	CSRCB3	Newly Introduced	❶	❶	❶
		GB3WM33				
		ERV 8 Variant 1				
		ERV 8 Variant 2				
		BBV-6				
		CINDY-25-B-P				
		ERVH-1				
		ERVH-2				
		ERVH-3				
		ERVH-4				
		ERVH-5				
		REG-01-04				
		REG-01-06				
		REG-01-08				
		REG-01-10				
		REG-01-16				
		REG-01-25				
		REG-01-32				
		REG-01-40				
		REG-02-04				
		REG-02-06				
		REG-02-08				
		REG-02-10				
		REG-02-16				
		REG-03-04				
		REG-03-04-ST				
		REG-03-06				
		REG-03-06-ST				
		REG-03-08				
		REG-03-08-ST				
		REG-03-10				
		REG-03-10-ST				

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
1	Bucher Hydraulics	REG-03-16	Newly Introduced	**0**	**0**	**0**
		REG-03-25				
		REG-03-32				
		REG-04-04				
		REG-04-06				
		REG-04-08				
		REG-04-10				
		REG-04-16				
		RS 1/2				
		RS 1/4				
		RS 18x1.5				
		RS 3/8				
		WEG-01-04				
		WEG-01-06				
		WEG-01-08				
		WEG-01-10				
		REG-03				
		VM01				
2	HYDAC	FC16-S3	Newly Introduced	**0**	**0**	**0**
		FC10-S3				
		04S30				
		05S30				
		10S30				
		RBE R1/2				
		RBE R1/4				
		RBE R3/4				
		RBE R3/8				
		04020				
		RVF 9/16-18 UNF				
		RVF G1/4				
		RVF G3/8				
		FCM45-5				

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
2	HYDAC	16520	Newly Introduced	**0**	**0**	**0**
		20330				
		10830				
		16621				
		KH3P06				
		KH3P10				
		KH3P16				
		KH3P20				
		KH4P06				
		KH4P10				
		KH4P16				
		KH4P20				
		KHP06				
		KHP3K06				
		KHP3K10				
		KHP3K16				
		KHP3K20				
		KHP3K25				
		KHP3K32				
		KHP3K40				
		KHP3K50				
		16021				
3	Polyhydron	PPM06K	Newly Introduced	**0**	**0**	**0**
		DPR06S				
		DPR10S				
		DPR20S				
		DPR06I				
4	Rexroth	LFA-125	Newly Introduced	**0**	**0**	**0**
		LFA-160				
		3WRCBH-25				
		3WRCBH-32				
		3WRCBH-50				

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
4	Rexroth	FG-16	Newly Introduced	**0**	**0**	**0**
		FK-16				
		FG-25				
		FG-32				
		MHDRE 02 K				
		R/MHDRE 06				
		N.058				
		3WRCE-80				
		3WRCE-100				
		2WRCE-125				
		DR20K				
		2WRCE-160				
		FL				
		R/KTV.1				
		R/KAV.2				
		R/FD				
		MSR52KE				
		LM				
		FTWE2K				
		FTWE4K				
		R/UNF-10-01-0-06				
		R/UNF-10-03-0-06				
		R/UNF16-03-0-06				
		FH				
		FK-25				
		FK-32				
		MHSU2				
		MHSU3				
		R/UNF-10-04-0-06				
		DB52				
		245PSF(N)0040-0063-0100				
		245PSF(N)0130-0150				

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
4	Rexroth	245PSF(N)0160-0250-0400	Newly Introduced	❶	❶	❶
		450FEN0040-063-100				
		450FEN0160-250-400				
		450FEN0630-1000				
		450PBFN0040-0063-0100				
		DAW 10				
		DAW 20				
		DAW 30				
		KSDE B				
		KSDE C				
		MSR102KD				
		MSR102KE				
		MSR125KD				
		MSR125KE				
		MSR150KD				
		MSR150KE				
		MSR52KD				
		MSR62KD				
		MSR62KE				
		MSR82KD				
		MSR82KE				
		DAWC 30				
5	Sun Hydraulics	T-382A	Newly Introduced	❶	❶	❶
6	Yuken	CDSC-01	Newly Introduced	❶	❶	❶
		YCB-06				
		YCB-10				
		SRCG-06				
		UCF1G-01				
		ZG-03/ZCG-03				

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
6	Yuken	ZG-06/ZCG-06	Newly Introduced	**0**	**0**	**0**
		EFBG-03				
		EFBG-06				
		CB-5				
		B5-C-G-1080				
		YCB-06-G				
		YCB-10-G				
		EFG/EFCG-06				
		EFG/EFCG-10				
		EFBG-10				
		DG-01				

Date: May 3, 2024

Release: MDTools Library 2023

Revision History: R2.22

Modified Cavities:

S. No	Library Name	Cavity/Footprint Name	Operations	Dot Inch	Dot MM	Comma MM
1	Expander Plug Ports	MB-600-125 A	Marked as Plug port	⓿		
		MB-600-093 A		⓿		
		MB-600-156 A		⓿		
		MB-600-187 A		⓿		
		MB-600-218 A		⓿		
		MB-600-250 A		⓿		
		MB-600-281 A		⓿		
2	Servo Valve-ISO 10372	10372-01-01-0-92	BH2 Depth rectified as 0.314" (7.97 mm)	⓿		
3	Rexroth	CA-10A-2N	Port 2 Depth rectified as 0.709" (18 mm)		⓿	⓿
4	Direct.Control-NFPA-T3.5.1	D02	Machining sequence details updated in all BH	⓿	⓿	⓿
		D03		⓿	⓿	⓿
		D07		⓿	⓿	⓿
		D08		⓿	⓿	⓿
		D10		⓿	⓿	⓿
5	Slip-In Cartridge-ISO 7368	BG-13-2-A	Locating pin name rectified as LP		⓿	⓿
		BE-11-2-A	LP Diameter and Depth rectified as 0.315" (8 mm) & 0.315" (8 mm) LP X & Y dimension rectified as -1.181" (-30 mm) & 1.968" (50 mm)	⓿		
6	Walvoil	VMP 10	Step12 Depth updated as 2.56" (65 mm) Port1 Depth added as 2.16" (55 mm) Port2 Diameter added as 0.275" (7 mm) Port2 Depth added as 0.689" (17.5 mm)	⓿	⓿	⓿
		VMP 20	Port2 Diameter added as 0.393" (10 mm) Port2 Depth added as 0.826" (21 mm)	⓿	⓿	⓿

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
6	Walvoil	VMPD 100	Step12 Depth updated as 2.56" (65 mm) Port2 Diameter added as 0.708" (18 mm) Port2 Depth added as 1.22" (31 mm)	❶	❶	❶
		VMP 5	Port2 Diameter added as 0.196" (5 mm) Port2 Depth added as 0.708" (18 mm)	❶	❶	❶
7	Bucher Hydraulics	DA	Port 1 Dimensions removed	❶	❶	❶
8	Hawe SICV Cavities	RK/B0	Step0 Depth rectified as 0.039" (1 mm) Step1 Depth rectified as 0.689" (17.5 mm) Step2 Depth rectified as 0.787" (20 mm) Port1 Depth rectified as 0.787" (20 mm) Port2 Diameter & Depth rectified as 0.196" (5mm) & 0.413" (10.5 mm)	❶	❶	❶
		RK/B1	Step1 Depth rectified as 1.024" (26 mm) Step2 Depth rectified as 1.142" (29 mm) Step12 Depth rectified as 1.575" (40 mm) Port1 Depth rectified as 1.142" (29 mm) Port2 Diameter & Depth rectified as 0.315" (8 mm) & 0.63" (16 mm)	❶	❶	❶
		RK/B14	Step3 Depth rectified as 1.024" (26 mm) Step4 Depth rectified as 1.142" (29 mm) Step12 Depth rectified as 1.575" (40 mm) Port1 Depth rectified as 1.142" (29 mm) Port2 Diameter & Depth rectified as 0.315" (8 mm) & 0.63" (16 mm)	❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
8	Hawe SICV Cavities	RK/B2	Step1 Depth rectified as 1.102" (28 mm) Step2 Depth rectified as 1.22" (31 mm) Step12 Depth rectified as 1.575" (40 mm) Port1 Depth rectified as 1.22" (31 mm) Port2 Diameter & Depth rectified as 0.354" (9 mm) & 0.65" (16.5 mm)	❶	❶	❶
		RK/B28	Step3 Depth rectified as 1.102" (28 mm) Step4 Depth rectified as 1.22" (31 mm) Step12 Depth rectified as 1.772" (45 mm) Port1 Depth rectified as 1.22" (31 mm) Port2 Diameter & Depth rectified as 0.354" (9 mm) & 0.65" (16.5 mm)	❶	❶	❶
		RK/B3	Step1 Depth rectified as 1.358" (34.5 mm) Step2 Depth rectified as 1.496" (38 mm) Port1 Depth rectified as 1.496" (38 mm) Port2 Diameter & Depth rectified as 0.472" (12 mm) & 0.787" (20 mm)	❶	❶	❶
		RK/B32	Step3 Depth rectified as 1.358" (34.5 mm) Step4 Depth rectified as 1.496" (38 mm) Port1 Depth rectified as 1.496" (38 mm) Port2 Depth rectified as 0.787" (20 mm)	❶	❶	❶
		RK/B4	Step1 Depth rectified as 1.732" (44 mm) Step2 Depth rectified as 1.89" (48mm) Port1 Depth rectified as 1.89" (48 mm) Port2 Diameter & Depth rectified as 0.63" (16 mm) & 0.945" (24 mm)	❶	❶	❶

S. No	Library Name	Cavity/Footprint Name	Operations	Dot Inch	Dot MM	Comma MM
8	Hawe SICV Cavities	RK/B47	Step3 Depth rectified as 1.732" (44 mm) Step4 Depth rectified as 1.89" (48mm) Step12 Depth rectified as 2.362" (60 mm) Port1 Depth rectified as 1.89" (48 mm) Port2 Diameter & Depth rectified as 0.63" (16 mm) & 0.945" (24 mm)	❶	❶	❶
9	Screw-In Cartridge-ISO 7789	18-01-0-07	Port 2 Depth rectified as 0.67" (17 mm)	❶		

Deleted Cavities:

S. No	Library Name	Cavity/Footprint Name	Operations	Dot Inch	Dot MM	Comma MM
1	Direct.Control-ISO 4401	4401-02-01-0-94	Cavity Removed from MDTools Library	❶	❶	❶
		4401-03-02-0-94				
		4401-03-03-0-94				
		4401-05-04-0-94				
		4401-05-05-0-94				
		4401-07-06-0-94				
		4401-08-07-0-94				
		4401-10-08-0-94				

Newly Introduced Cavities:

S. No	Library Name	Cavity/Footprint Name	Operations	Dot Inch	Dot MM	Comma MM
1	Walvoil	PDMV-NG	Newly Introduced	❶	❶	❶
2	Parker	WPF2	Newly Introduced	❶	❶	❶
		WPF4/WPF5				
3	Donaldson	W451	Newly Introduced	❶	❶	❶
4	HYDAC Filters	CF45	Newly Introduced	❶	❶	❶
5	CBF Hydraulic	CAV00108	Newly Introduced	❶	❶	❶
		VS03				
6	HydraForce	VC-G028	Newly Introduced	❶	❶	❶
7	Rexroth	DB6K	Newly Introduced	❶	❶	❶
		DB10K				

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
8	DMIC	BVMM-0250-2	Newly Introduced	❶	❶	❶
		BVMM-0250-3				
		BVMM-0375-2				
		BVMM-0375-3				
		BVMM-0500-2				
		BVMM-0500-3				
		BVMM-0750-2				
		BVMM-0750-3				
		BVMM-1000-2				
		BVMM-1000-3				
		BVMM-1250-2				
		BVMM-1250-3				
		BVMM-1500-2				
		BVMM-1500-3				
		BVMM-2000-2				
		BVMM-2000-3				
9	AVIT	FA-100-0	Newly Introduced	❶	❶	❶
		FA-100-2				
		FA-100-3				
		FA-100-4				
		FA-100-5				
		FA-100-6				
		FA-10-3				
		FA-10-4				
		FA-12-2				
		FA-125-0				
		FA-125-2				
		FA-125-3				
		FA-125-4				
		FA-125-5				
		FA-125-6				
		FA-150-0				
		FA-150-2				
		FA-150-3				

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
		FA-150-4				
		FA-150-5				
		FA-150-6				
		FA-16-2				
		FA-16-3				
		FA-16-4				
		FA-16-5				
		FA-16-6				
		FA-175-3				
		FA-175-4				
		FA-200-2				
		FA-200-3				
		FA-200-4				
		FA-200-5				
		FA-20-2				
		FA-20-3				
		FA-20-4				
9	AVIT	FA-20-5	Newly Introduced	❶	❶	❶
		FA-20-6				
		FA-225-4				
		FA-25-0				
		FA-250-4				
		FA-25-2				
		FA-25-3				
		FA-25-4				
		FA-25-5				
		FA-25-6				
		FA-32-0				
		FA-32-2				
		FA-32-3				
		FA-32-4				
		FA-32-5				
		FA-32-6				
		FA-40-0				
		FA-40-2				

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
9	AVIT	FA-40-3	Newly Introduced	❶	❶	❶
		FA-40-4				
		FA-40-5				
		FA-40-6				
		FA-50-0				
		FA-50-2				
		FA-50-3				
		FA-50-4				
		FA-50-5				
		FA-50-6				
		FA-65-0				
		FA-65-2				
		FA-65-3				
		FA-65-4				
		FA-65-5				
		FA-65-6				
		FA-70-5				
		FA-80-0				
		FA-80-2				
		FA-80-3				
		FA-80-4				
		FA-80-5				
		FA-80-6				
		FA-90-0				
		FA-90-5				
10	MPFILTRI	VC96-2002	Newly Introduced	❶	❶	❶

Date: July 29, 2023

Release: MDTools Library 2022

Revision History: R2.21

Modified Cavities:

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
1	Direct.Control-NFPA-T3.5.1	D07	All Ports Positions corrected	❶		
2	Rexroth	MSR10KE	Port 2 depth rectified as 1.255" (31.88 mm)	❶	❶	❶
		MSR15KE	Port 2 depth rectified as 1.429" (36.3 mm)	❶	❶	❶
		MSR20KE	Port 2 depth rectified as 1.614" (41 mm)	❶	❶	❶
		MSR25KE	Port 2 depth rectified as 1.979" (50.27 mm)	❶	❶	❶
		MSR30KE	Port 2 depth rectified as 2.122" (53.91 mm)	❶	❶	❶
		MSR8KE	Port 2 depth rectified as 1.108" (28.14 mm)	❶	❶	❶
		DBD10K	Cavity Note updated Step 3 Depth rectified as 1.256" (31.9 mm) Port 3 removed Port 1 Depth rectified as 1.752" (44.5 mm) Port 2 Diameter & Depth rectified as 0.591" (15 mm) & 0.906" (23.5 mm)	❶	❶	❶
		DBD20K	Cavity Note updated Port 3 removed Port 1 Depth rectified as 2.382" (60.5 mm) Port 2 Diameter & Depth rectified as 0.866" (22 mm) & 1.339" (34 mm)	❶	❶	❶
		DBD30K	Cavity Note updated Step 1 Diameter rectified as 2.283" (58 mm) Step 4 added Port 3 removed Port 1 Depth rectified as 2.972" (75.5 mm) Port 2 Diameter & Depth rectified as 1.339" (34 mm) & 1.575" (40 mm) Thread Pitch rectified as M60x2	❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
2	Rexroth	DBD6K	Cavity Note updated Step 3 Diameter rectified as 0.98" (24.9 mm) Step 4 added Port 3 removed Port 1 Depth rectified as 1.634" (38.5 mm) Port 2 Diameter & Depth rectified as 0.472" (12 mm) & 0.827" (21 mm)	❶	❶	❶
		FD 12 KA 2X	Port 2 Undercut added	❶	❶	❶
		FD 16 KA 2X	Port 2 Undercut added	❶	❶	❶
		FD 25 KA 2X	Port 2 Undercut added Bolt holes dimensions rectified as per M12x1.75-6H Standard	❶	❶	❶
		FD 32 KA 2X	Port 2 Undercut added Bolt holes dimensions rectified as per M16x2.0-6H Standard	❶	❶	❶
3	SAE Flanges-J518	1" Code 61	Semi Colon removed from the Footprint table 3 (Cavity Index 60 to 78) from EnvelopDimensions in Database	❶		
		1" Code 62				
		1/2" Code 61				
		1/2" Code 62				
		1/2" Code 62				
		1-1/2" Code 62				
		1-1/4" Code 61				
		1-1/4" Code 62				
		2" Code 61				
		2" Code 62				
		2-1/2" Code 61				
		2-1/2" Code 62				
		3" Code 61				
		3" Code 62				
		3/4" Code 61				
		3/4" Code 62				
		3-1/2" Code 61				
		4" Code 61				
		5" Code 61				
4	Parker	3K	Semi Colon removed from the Footprint Table 22 (Cavity Index 87) from EnvelopDimensions in Database	❶		

Newly Introduced Cavities:

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
1	Bucher Hydraulics	CINDY 20-B-V1	Newly Introduced	**0**	**0**	**0**
		CINDY 20-B-V2				
		CINDY 25-B-V1				
		CINDY 25-B-V2				
2	Dr.Breit	DN32	Newly Introduced	**0**	**0**	**0**
3	Rexroth	DB20KXY	Newly Introduced	**0**	**0**	**0**
		DB20KY				
4	HYDAC	FC06-4	Newly Introduced	**0**	**0**	**0**
5	General Electric	GPV10-5	Newly Introduced	**0**	**0**	**0**
6	Fluid-Press	22264	Newly Introduced	**0**	**0**	**0**
		22351				
		31211				
		32209				
		36363				
		36251				
7	Parker	PLC053	Newly Introduced	**0**	**0**	**0**
		PLC082				
		PLC182				
		PLC280				
8	MHA ZENTGRAF	MPKH4-DN-20	Newly Introduced	**0**	**0**	**0**

Date: Dec 22, 2022

Release: MDTools Library 2022

Modified Cavities:

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
1	SAE Ports-J1926-1	#10 SAE	Max pressure Rating changes from Psi to Bar in MM library		⓿	⓿
		#12 SAE			⓿	⓿
		#14 SAE			⓿	⓿
		#16 SAE			⓿	⓿
		#2 SAE			⓿	⓿
		#20 SAE			⓿	⓿
		#24 SAE			⓿	⓿
		#3 SAE			⓿	⓿
		#32 SAE			⓿	⓿
		#4 SAE			⓿	⓿
		#5 SAE			⓿	⓿
		#6 SAE			⓿	⓿
		#8 SAE			⓿	⓿
2	Parker	1/4"-SF250CX20	Max pressure Rating changes from Psi to Bar in MM library		⓿	⓿
		3/8"-SF375CX20			⓿	⓿
		9/16"-SF562CX10			⓿	⓿
		9/16"-SF562CX20			⓿	⓿
3	Metric Ports-ISO 6149-1	ISO 6149-1-M10 X 1	Max pressure Rating changes from Psi to Bar in MM library		⓿	⓿
		ISO 6149-1-M12 X 1.5			⓿	⓿
		ISO 6149-1-M14 X 1.5			⓿	⓿
		ISO 6149-1-M16 X 1.5			⓿	⓿
		ISO 6149-1-M18 X 1.5			⓿	⓿
		ISO 6149-1-M22 X 1.5			⓿	⓿
		ISO 6149-1-M27 X 2			⓿	⓿
		ISO 6149-1-M33 X 2			⓿	⓿
		ISO 6149-1-M42 X 2			⓿	⓿
		ISO 6149-1-M48 X 2			⓿	⓿
		ISO 6149-1-M60 X 2			⓿	⓿
		ISO 6149-1-M8 X 1			⓿	⓿

S. No	Library Name	Cavity/Footprint Name	Operations	Dot Inch	Dot MM	Comma MM
4	Expander Plug Ports	MB-600-030	Max pressure Rating changes from Psi to Bar in MM library		0	0
		MB-600-040			0	0
		MB-600-050			0	0
		MB-600-060			0	0
		MB-600-070	Max pressure Rating changes from Psi to Bar in MM library Step 1 depth rectified as 0.287" (7.3mm)	0	0	0
		MB-600-080	Max pressure Rating changes from Psi to Bar in MM library		0	0
		MB-600-090			0	0
		MB-600-100			0	0
		MB-600-120			0	0
		MB-600-140			0	0
		MB-700-030			0	0
		MB-700-040			0	0
		MB-700-050			0	0
		MB-700-060			0	0
		MB-700-070			0	0
		MB-700-080			0	0
		MB-700-090			0	0
		MB-700-100			0	0
		MB-700-120			0	0
		MB-700-140			0	0
		MB-700-160			0	0
		MB-700-180			0	0
		MB-700-200			0	0
		MB-700-220			0	0
		MB-850-030			0	0
		MB-850-040			0	0
		MB-850-050			0	0
		MB-850-060			0	0
		MB-850-070			0	0
		MB-850-080			0	0
		MB-850-090			0	0
		MB-850-100			0	0
		MB-850-120			0	0

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
4	Expander Plug Ports	MB-850-140	Max pressure Rating changes from Psi to Bar in MM library		❶	❶
		MB-850-160			❶	❶
		MB-850-180			❶	❶
		MB-850-200			❶	❶
		MB-850-220			❶	❶
		MB-600-125 A	Step 0 angle rectified from 60° to 45° in inch library	❶		
		MB-600-093 A		❶		
		MB-600-156 A		❶		
		MB-600-187 A		❶		
		MB-600-218 A		❶		
		MB-600-250 A		❶		
		MB-600-281 A		❶		
5	Short Ports	#2 SP PORT	Max pressure Rating changes from Psi to Bar in MM library		❶	❶
		#3 SP PORT			❶	❶
		#4 SP PORT			❶	❶
		#5 SP PORT			❶	❶
		#6 SP PORT			❶	❶
		#8 SP PORT			❶	❶
		#10 SP PORT			❶	❶
		#12 SP PORT			❶	❶
		#16 SP PORT			❶	❶
6	BSP Ports- ISO 1179-1	G 1 1/2	Cavity name considered without pitch value	❶	❶	❶
		G 1 1/4		❶	❶	❶
		G 1/2		❶	❶	❶
		G 1/4		❶	❶	❶
		G 1/8		❶	❶	❶
		G 1		❶	❶	❶
		G 2		❶	❶	❶
		G 3/4		❶	❶	❶
		G 3/8		❶	❶	❶
7	BSPT Port ISO 7-1	RC 1 1/2	Cavity name considered without pitch value Size mentioned as REF! in inch library rectified	❶	❶	❶
		RC 1 1/4		❶	❶	❶
		RC 1/2		❶	❶	❶
		RC 1/4		❶	❶	❶
		RC 1/8		❶	❶	❶
		RC 1		❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
7	BSPT Port ISO 7-1	RC 2	Cavity name considered without pitch value Size mentioned as REF! in inch library rectified	0	0	0
		RC 3/4		0	0	0
		RC 3/8		0	0	0
8	HYDAC	03030	Step 4 added Cavity Note updated Step 1 Diameter rectified as 0.382" (9.7 mm)	0	0	0
		05030	Step 3 Diameter & Depth rectified as 0.433'' (11 mm) & 1.26" (32 mm) Step 4 added Cavity note updated	0	0	0
9	MOOG	D663	Machining Sequence rectified	0	0	0
		D664	Drill hole Y dimension rectified as -0.059" (-1.5 mm) for Y axis Machining Sequence rectified	0	0	0
		D665	Outline dimensions rectified Machining Sequence rectified	0	0	0
		D791	LP1 axis Y dimension rectified as 0.248" (6.3 mm) Outline dimensions rectified Machining Sequence rectified	0	0	0
		D792	Machining Sequence rectified	0	0	0
		G761	Port P, A, B & T Diameter rectified as 0.323" (8.2 mm) Bolt holes dimensions rectified Machining Sequence rectified	0	0	0
		D662	Machining Sequence rectified	0	0	0
10	Sun Hydraulics	T-18AU	Cavity port selected in edit undercuts	0	0	0
		T-19AU		0	0	0
		T-24A	Step 2 Depth rectified as 0.937'' (23.8 mm)	0	0	0
		T-382A_4SAE	Cavity name changes from T-382A to T-382A_4SAE #4 SAE Port dimensions used till Step 4 Step 5 depth calculated as 1.281" (32.53 mm) as per Catalog Note no. 1 LS depth value Step 6 new dimension added for Thread details	0	0	0

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
11	Schroeder	KF50	The tapped size rectified as 9/16	**0**	**0**	**0**
12	VIS Hydraulics	SAE08-3	Port 4 Diameter added as 0.236" (6 mm)	**0**		
		SAE10-3	Port 4 Diameter added as 0.315" (8 mm)	**0**		

Newly Introduced Cavities:

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
1	2MP Oleodinamica	C001 C002 C007 C008 C012 C019 C021 C023 C025 C035 C037 C038 C045 C054 C056 C067 C068	Newly Introduced	**0**	**0**	**0**
2	Anchor Fluid Power	APK2-4 APK2-6 APK2-8 APK2-12 APK2-16 APK2-20 APK2-24	Newly Introduced	**0**	**0**	**0**
3	Danfoss	SDC10-5	Newly Introduced	**0**	**0**	**0**
4	HYDAC	12131	Newly Introduced	**0**	**0**	**0**
5	Hydraforce	HVC16-S6	Newly Introduced	**0**	**0**	**0**
6	NEM	C220000 C222000 C230000 C230001 C232000 C240000 C240001 C250000 C260001	Newly Introduced	**0**	**0**	**0**

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
6	NEM	C310000 C320000 C321000 C330000 C331000 C340000 C341000 C351000 C420000 C430000 C440000 C450000 C533000 M340000 N330000 S000004 S000005 S000020	Newly Introduced	❶	❶	❶
7	Parker	TPQ-25 TPQ-32 TPQ-40 TPQ-50 TPQ-63 TPQ-80	Newly Introduced	❶	❶	❶
8	Rexroth	R/DRET5SK 3WRCE-32 3WRCE-40 3WRCE-50	Newly Introduced	❶	❶	❶
9	Winner Hydraulics	08W-5 10A-2 11A-3 12WA-2 12WB-2 13A-2 162A-2 162AP-2 163A-3 16A-2 16W-3 16WS-2 17A-3 18A-2 18AB-2 18MS-3 19A-3 19AB-3 21A-4 21AS-4 22A-4 22M3-3 22ML-2	Newly Introduced	❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
9	Winner Hydraulics	23A-4 24A-4 24AB-4 27M-2 2A-3 31A-4 32A-4 33A-4 33MA-2 34A-4 3A-2 42M-2 52A-6 53A-6 54A-6 5A-2 61A-6 62A-6 63A-6 64A-6 8A-2	Newly Introduced	0	0	0
10	TUCSON	TH6935	Newly Introduced	0	0	0
11	Sun Hydraulics	T-24AU SC-10-04 SC-08-04 T-54AD T-382A_1/4 BSPP T-382A_3/8 BSPP T-382A_6SAE T-382A_NPT 1/4 T-382A_NPT 3/8	Newly Introduced	0	0	0

Date: Jun 17, 2022

Release: MDTools Library 2021

Revision History: R2.019

Modified Cavities:

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
1	Pressure Control-ISO 6264	6264-08-11-97	Locating pin renamed from DH to LP	❶	❶	❶
		6264-03-04-97	Locating pin renamed from G to LP	❶	❶	❶
		6264-08-13-97	Locating pin renamed from G to LP	❶	❶	❶
2	Sun Hydraulics	T-150A	Locating shoulder rectified from step3 to step2	❶	❶	❶
		T-162A	Locating shoulder rectified from step3 to step2	❶		❶
		T-162DP	Locating shoulder details removed as it is not a Sun cavity	❶		❶
		T-30A	Locating shoulder rectified from step3 to step2	❶	❶	❶
		T-8DP	Locating shoulder details removed as it is not a Sun cavity	❶	❶	❶
3	BSPT Port ISO 7-1	RC 1 1/2-11	Library name renamed from BSPT Ports-ISO 1179-1 to BSPT Port ISO 7-1 and cavity structure updated	❶	❶	❶
		RC 1 1/4-11	Library name renamed from BSPT Ports-ISO 1179-1 to BSPT Port ISO 7-1 and cavity structure updated	❶	❶	❶
		RC 1/2-14	Library name renamed from BSPT Ports-ISO 1179-1 to BSPT Port ISO 7-1 and cavity structure updated	❶	❶	❶
		RC 1/4-19	Library name renamed from BSPT Ports-ISO 1179-1 to BSPT Port ISO 7-1 and cavity structure updated	❶	❶	❶
		RC 1/8-28	Library name renamed from BSPT Ports-ISO 1179-1 to BSPT Port ISO 7-1 and cavity structure updated	❶	❶	❶
		RC 1-11	Library name renamed from BSPT Ports-ISO 1179-1 to BSPT Port ISO 7-1 and cavity structure updated	❶	❶	❶
		RC 2-11	Library name renamed from BSPT Ports-ISO 1179-1 to BSPT Port ISO 7-1 and cavity structure updated	❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
3	BSPT Port ISO 7-1	RC 3/4-14	Library name renamed from BSPT Ports-ISO 1179-1 to BSPT Port ISO 7-1 and cavity structure updated	⓪	⓪	⓪
		RC 3/8-19	Library name renamed from BSPT Ports-ISO 1179-1 to BSPT Port ISO 7-1 and cavity structure updated	⓪	⓪	⓪

Newly Introduced Cavities:

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
1	Sun Hydraulics	SC-10-02	Newly Introduced	⓪	⓪	⓪
2	Eaton	CB 12 GA 10 CB 16 GA 10 CB 25 GA 10 CB 32 GA 10	Newly Introduced	⓪	⓪	⓪
3	Parker	BD15 BD30	Newly Introduced	⓪	⓪	⓪
4	HYDAC	08730 10121 10122 12122 16121 16122	Newly Introduced	⓪	⓪	⓪
5	Expander Plug Ports	MB-700-030 MB-850-030 MB-700-040 MB-850-040 MB-700-050 MB-850-050 MB-700-060 MB-850-060 MB-700-070 MB-850-070 MB-700-080 MB-850-080 MB-700-090 MB-850-090 MB-700-100 MB-850-100 MB-700-120 MB-850-120	Newly Introduced	⓪	⓪	⓪

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
5	Expander Plug Ports	MB-700-140 MB-850-140 MB-700-160 MB-850-160 MB-700-180 MB-850-180 MB-700-200 MB-850-200 MB-700-220 MB-850-220	Newly Introduced	❶	❶	❶

Date: Dec 27, 2021

Release: MDTools Library 2021

.

Revision History: R2.018

Modified Cavities:

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
1	HYDAC	FC08-3	Step3 Depth rectified as 0.696" (17.68 mm) Step4 Depth rectified as 1.256" (31.91 mm)	❶	❶	❶
		FC10-3	Step1 Angle rectified as 15° Step3 Depth rectified as 0.802" (20.36 mm) Step4 Depth rectified as 1.504" (38.21 mm)	❶	❶	❶
		FC10-4	Step3 Depth rectified as 0.875" (22.22 mm) Step4 Depth rectified as 1.506" (38.24 mm) Step5 Depth rectified as 2.126" (54.01 mm)	❶	❶	❶
		FC16-3	Step3 Depth rectified as 1.305" (33.14 mm)	❶	❶	❶
		FC16-4	Step0 Diameter rectified as 1.75" (44.45 mm) Step3 Depth rectified as 1.304" (33.12 mm)	❶	❶	❶
2	Integrated Hydraulics	A3377	Step12 Depth rectified as 2" (50.8 mm)	❶	❶	❶
		A3531	Step12 Depth rectified as 2.5" (63.5 mm) Port1 Depth rectified as 2.165" (55 mm)	❶	❶	❶
		A6835	Step1 Diameter rectified as 1.4" (35.58 mm)	❶	❶	❶
		A893	Step12 Depth rectified as 3"(75 mm)	❶	❶	❶
		A12370	Step3 Angle rectified as 60° Step4 Diameter & Depth rectified as 0.626" (15.9 mm) & 1.315" (33.4 mm) Step12 Diameter & Depth rectified as 0.551"(14 mm) & 1.772" (45 mm)	❶	❶	❶
		A2791	Step4 Angle rectified as 90°	❶	❶	❶
		A5302	Step12 Diameter rectified as 0.61" (15.5 mm)	❶	❶	❶
		A6935	Step7 Diameter & Depth rectified as 1.378" (35 mm) & 3.031" (77 mm) Step12 Diameter & Depth rectified as 1.339" (34 mm) & 3.346" (85 mm)	❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
2	Integrated Hydraulics	A881	Step4 Depth rectified as 2.262" (57.45 mm) Step12 Depth rectified as 3.346" (85 mm) Max. Drill Diameter rectified as 0.531" (13.5 mm)	❶	❶	❶
		A12743	Step12 Depth rectified as 2.559" (65 mm)	❶	❶	❶
		A12744	Step12 Depth rectified as 3.15" (85 mm) Max. Drill Diameter rectified as 0.591" (15 mm)	❶	❶	❶
		A13098	Step12 Depth rectified as 3.937" (100 mm)	❶	❶	❶
		A16927	Step12 Depth rectified as 0.984" (25 mm)	❶	❶	❶
		A19787	Step6 Angle rectified as 45° Step7 Depth & Angle rectified as 4.173" (106 mm) & 60° Step12 Depth & Angle rectified as 4.528" (115 mm) & 59°	❶	❶	❶
		A3973	Step3 Diameter rectified as 0.803" (20.4 mm) Step4 Diameter & Depth rectified as 0.751" (19.08 mm) & 1.496" (38 mm) Step12 Depth rectified as 1.772" (45 mm)	❶	❶	❶
		A5572	Step3 Diameter rectified as 0.803" (20.4 mm) Step4 Diameter rectified as 0.749" (19.03 mm) Step5 Diameter & Depth rectified as 0.67" (17.03 mm) & 2.717" (69 mm) Step12 Depth rectified as 2.953" (75 mm) Port1 Depth rectified as 2.32"(59mm)	❶	❶	❶
3	Parker	C16-3S	Step12 rectified as 2.56" (65 mm)	❶	❶	❶
		CDD-1036	Step6 Diameter, Depth & Angle taken as 0.937" (23.8 mm), 2.38" (60.3 mm) & 60° Step12 Diameter & Depth rectified as 0.217" (5.5 mm) & 3" (75 mm) Maximum Drill Diameter taken as 0.236" (6 mm)	❶	❶	❶
4	Direct.Control-NFPA-T3.5.1	D05-Alt-A	Rename D05H to D05-Alt-A	❶	❶	❶
		D05-Alt-B	T1 port added	❶	❶	❶

Modified O-rings Data:

S. No	Modified O-Rings	Operation	Dot		Comma
			Inch	MM	MM
1	ALL	Dash number Updated as: 2-008, 2-009, 2-2010… etc. O-ring Inner Diameter, Outer Diameter and Groove Width Updated.		❶	❶

Newly Introduced Cavities:

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
1	Tognella	FT 243/2-243/5-243/5S-14 FT 243/2-243/5-243/5S-38 FT 243/2-243/5-243/5S-12 FT 243/2-243/5-243/5S-34 FT280/2-12 FT280/2-14 FT 280/2-281/2-18 FT280/2-38 FT 280/2-60 FT 281/2-60 FT 280/5-280/6-12 FT 280/5-280/6-14 FT 280/5-280/6-38 FT 280/5-288/5-288/2-289/2-60 FT 287/2-297/2-14 FT 287/2-297/2-38 FT 287/2-297/2-12 FT 287/2-297/2-34 FT281/5-60 FT293 FTIPH FTIPN FTIPNB FT 1247/2-18 BS FT 1247/2-18 CS FT 1247/2-18 FS FT 245/6-12 FT 245/6-14 FT 245/6-34 FT 245/6-38 FT 247/2-267/2-100 BS FT 247/2-267/2-100 CS FT 247/2-267/2-100 FS FT 247/2-267/2-12 BS FT 247/2-267/2-12 CS FT 247/2-267/2-12 FS FT 247/2-267/2-14 BS FT 247/2-267/2-14 CS FT 247/2-267/2-14 FS	Newly Introduced	❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
1	Tognella	FT 247/2-267/2-18 BS FT 247/2-267/2-18 CS FT 247/2-267/2-18 FS FT 247/2-267/2-34 BS FT 247/2-267/2-34 CS FT 247/2-267/2-34 FS FT 247/2-267/2-38 BS FT 247/2-267/2-38 CS FT 247/2-267/2-38 FS FT 264/2-12 FT 264/2-14-264/2-18 FT 264/2-34 FT 264/2-38 FT 265/2-268/2-34-UNF FT 265/2-268/2-78-UNF FT 266/2-266/5-266/6-34-UNF FT 266/2-266/5-266/6-78-UNF FT 267/5-100 CS FT 267/5-100 FS FT 267/5-12 BS FT 267/5-12 CS FT 267/5-12 FS FT 267/5-14 BS FT 267/5-14 CS FT 267/5-14 FS FT 267/5-34 BS FT 267/5-34 CS FT 267/5-34 FS FT 267/5-38 BS FT 267/5-38 CS FT 267/5-38 FS FT 267/6-12 FT 267/6-14 FT 267/6-34 FT 267/6-38	Newly Introduced	❶	❶	❶
2	Moog	631-500A	Newly Introduced	❶	❶	❶
3	Wandfluh	NG3-Mini NG4-Mini	Newly Introduced	❶	❶	❶
4	Barksdale	PR_C/HE04-32	Newly Introduced	❶	❶	❶
5	Yuken	BG-03/BSG-03/EBG-03 BG-06/BSG-06/EBG-06 BG-10/BSG-10/EBG-10 BUCG-06 BUCG-10 EDG-01 EFBG-03-125 ERBG-06 FG-01-*-N/FCG-01-*-N FG-02-*-N/FCG-02-*-N FG-03-*-N/FCG-03-*-N FG-06-*-N/FCG-06-*-N LSVG-03	Newly Introduced	❶	❶	❶

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
5	Yuken	MHSL-11-2.0 MHSL-19-2.0 MHSL-28-2.0 MSSL-06-2.0 RBG-03 RBG-06 RCG-03 RG-06/RCG-06 RG-10/RCG-10 TCMS-06-2.0 YBG-01-*-1080 YBG-02-*-1080	Newly Introduced	❶	❶	❶
6	General Electric	GPV10 GPV25 GPV35 GPV50 GPV80	Newly Introduced	❶	❶	❶

Date: April 28, 2021

Release: MD Tools Library 2020

Revision History: R2.017

Modified Cavities:

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
1	Fluid-Press	22201	Step4 Diameter, Depth and Angle rectified as 0.512" (13 mm), 2.047" (52 mm) & 60° Step12 Diameter, Depth and Angle introduced as 0.472" (12 mm), 2.5" (55 mm) & 59°	❶	❶	❶
2	HYDAC Filters	DFP/DFPF 330-1320	LP rectified as 1.063" (27 mm)	❶	❶	❶
3	Rexroth	FD 25 KA 2X	Step12 Diameter, Depth and Angle rectified as 0.197" (5 mm), 7.185" (182.5 mm) & 59°	❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
1	HYDAC	FC06-2 FC06-3	Newly Introduced	❶	❶	❶
2	Hawe SICV Cavities	MV4 MV6 MV8	Newly Introduced	❶	❶	❶
3	Rexroth	FD 12 KA 2X FD 16 KA 2X FD 32 KA 2X 008 009 308 690 730 808 869 870 871 924 1004 017-E 021-E 076-E 081-E 730-A CA-04A-2N CA-10A-5N	Newly Introduced	❶	❶	❶

Newly Introduced Cavities:

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
3	Rexroth	CA-16A-5C CA-20B-6C FB FC FK LG R/LA R/MH2FR04K YHC YHK	Newly Introduced	❶	❶	❶
4	Argo-Hytos	BPY3 CPY3 QF2 QH2 RD3 RE3 BP3 A2 A3 A4 B2 B3 B4 C2 C3 CP3 Q3 QC2 QE3 QF3 QG2 QI3 QJ3 RA2	Newly Introduced	❶	❶	❶
5	CBF Hydraulics	CAV00001 CAV00004 CAV00005 CAV00025 CAV00038 CAV00046 CAV00055 CAV00079 CAV00083 CAV00088 CAV00092	Newly Introduced	❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
6	Fluid-Press	23161 26241 32181 32205 32221 32331 32421 33071 33081 33082 33101 33102 33121 33122 33123 33141 33161 33162 36241 43081 43101 43121 43161 32351 32381 33103	Newly Introduced	❶	❶	❶
7	HBS	HBS.38.M.02A HBS.39.M.02A HBS.90.U.03A HBS.93.U.02A HBS.93.U.03A HBS.94.U.02A HBS.94.U.03A HBS.96.U.02A HBS.96. U.03A HBS.97.U.02A HBS.37.M.03A HBS.38.M.03A	Newly Introduced	❶	❶	❶
8	Hoerbiger	PSR2BE10 SP32 SP33 SR2BE08E VDM2VE16E/VPDM2VE16 PSR2BE04 PSR3BE10 VDBE08 VDBE10	Newly Introduced	❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
9	Hydrofactory	RV30 SAE 08.02 SAE 10/2 RV80	Newly Introduced	**0**	**0**	**0**

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
10	IMAV	C-08-2-IMAV C-08-3-IMAV C-08-4-IMAV C-10-2-IMAV C-10-3-IMAV C-10-3S-IMAV C-10-4-IMAV C-12-2-IMAV C-12-3-IMAV C-12-3S-IMAV C-12-4-IMAV C-16-2-IMAV C-16-3-IMAV C-16-3S-IMAV C-16-4-IMAV C-20-2-IMAV C-20-3-IMAV C-20-3S-IMAV C-20-4-IMAV	Newly Introduced	**0**	**0**	**0**
11	LC Oleodinamica	LC-11 LC-15 LC-21	Newly Introduced	**0**	**0**	**0**

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
12	OFC	CBC 60 CBC 90 CBC 150 CBCC 60 CBCC 90 CBCC 150 CBCE 120 CBCE 200 CBCE 320 CVC 02 CVC 03 CVC 04 CVC 20 CVC 40 CVC 80 CVC 120 CVC 200 CVC 360 FDCS10 LVCPHW 80 LVPC04 LVPC06 PRC 1 PRC 20 PRC 35 / PRC 35CC PRC 80 PRC20M 18 PRCD 150 PRCD 250 VD32CS 120	Newly Introduced	❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
12	OFC	VPRDC 02 VPREDC 03	Newly Introduced	❶	❶	❶

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
13	Oilcomp	VSE.C01 VSE.C02 VSE.C03 VSE.C04 VSE.C05 C1001-2V C1002-2V C1003-2V C1006-2V C1007-2V C1009-2V C1012-2V C1013-2V C1015-2V C1021-2V C1023-2V C1028-2V C1029-2V C2001-2V C2002-2V C2004-2V C2006-2V C3001-2V C3002-2V C3003-2V C3004-2V C3005-3V C3007-2V C3009-3V C4003-3V C4006-3V C4007-3V C4009-3V C4010-3V C4012-3V C4013-3V C4023-3V C5001-2V C5013-2V C5014-2V C5020-2V C5023-3V C5024-2V C5025-2V C5039-3V C6001-3V C6002-3V C6003-3V C8006-2V C4004-3V	Newly Introduced	❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
13	Oilcomp	C4015-3V C5079-2V CIS001-2V	Newly Introduced	❶	❶	❶
14	Oleoweb	C2015/2 C2015/30 C2015/1415/2 C2215/3 C2415/2 C2615/2 C2815/2 SAE08/2 SAE10/2 SAE12/2 SAE16/2 SAE08/3 VUBA100 VUBA120 VUBA140 VUBA340 VUBA380 VUC140 VUC380 VUI120 VUI140 VUI340 VUI380 VUP120 VUP140 VUP340 VUP380 SAE10/3 SAE12/3 SAE16/3 SAE08/4 SAE10/4 SAE12/4 SAE16/4 VCC140 VCC380 VRD120 VRD140 VRD340 VRD380 VSC120	Newly Introduced	❶	❶	❶
15	Parker	3U C11-3	Newly Introduced	❶	❶	❶
16	Spica	M20, 2port	Newly Introduced	❶	❶	❶
17	TRIES	A1 A2 A2.1 B2	Newly Introduced	❶	❶	❶

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
17	TRIES	D1 D2 D2.1 D4 E1.1 E2.1 K2 T10 T6 T-8A-TRIES VH002 VH003 VH004 VH005 VH054 A3 A3.1 A4.1 B2.1 B3 B3.1 B4 B5 D3 D5 E1 E2 E3 E3.1 F2 F3 F4 F5 K3 K4 K5 T7	Newly Introduced	❶	❶	❶
18	VIS Hydraulics	SAE08 SAE08-1 SAE08-2 SAE08-3 SAE09 SAE10 SAE10-1 SAE10-2 SAE10-3 SAE12 SAE16 SAE20 VH001 VH002	Newly Introduced	❶	❶	❶

S. No	Library Name	Cavity/Footprint Name	Operations	Dot		Comma
				Inch	MM	MM
18	VIS Hydraulics	VH003 VH004 VH005 VH007 VH008 VH009 VH011 VH012 VH013 VH014 VH015 VH017 VH018 VH020 VH021 VH023 VH024 VH056 VH057 VH058 VH077 VH079 VH080 VH085 VH091 VH106 VH166 VH169 VH028 VH039 VH041 VH043 VH045 VH052 VH053 VH054 VH065 VH070 VH092 VH094 VH095 VH101 VH102 VH120 VH121 VH122 VH131 VH146 VH160 VH162 VH189 VH208 VH062	Newly Introduced	❶	❶	❶

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
18	VIS Hydraulics	VH069 VH099 VH194 VH209	Newly Introduced	**0**	**0**	**0**
19	WEBER-HYDRAULIK	C-10-2-WH C-10-3-WH DB12-FT DBG1 DBG4 EDB EEPDBD 03 EEPDBD 05 EEPDRD3-04 FTRW-2.5 FTRW-5 M(S)V3/2 MSV MSVT PVDE2-11 RBR-G 1/2 RBR-G 1/4 RBR-G 3/8 RBS1-G 1/2 RBS1-G 1/4 RBS1-G 3/4 RBS1-G 3/8 RBS1-M18x1.5 RHR-G 1/2 RHR-G 1/4 RHR-G 3/4 RHR-G 3/8 RKR-G 1/2 RKR-G 1/4 RKR-G 3/4 RKR-G 3/8 SMSVP STO/DBT2 T-11A-WH T-2A-WH T-3A-WH T-5A-WH VCD-G 1/2 VCD-G 1/4 VCD-G 3/4 VCD-G 3/8 VCL-G 1/2 VCL-G 1/4 VCL-G 3/8 VCM NG 3 NG 3 Compact NG 4 Compact	Newly Introduced	**0**	**0**	**0**

| S. No | Library Name | Cavity/Footprint Name | Operations | Dot | | Comma |
				Inch	MM	MM
19	WEBER-HYDRAULIK	SMSV6 STD STE T-8A-WH T-10A-WH T-13A-WH T-16A-WH DBT	Newly Introduced	**0**	**0**	**0**

Date: Sep 18, 2020

Release: MDTools Library 2020 R1.016

Modified Cavities:

S. No	Library Name	Cavity/Footprint Name	Operations	English		German
				Inch	MM	MM
1	Delta Power	40500005	Step6, Depth rectified as 28.575 mm Step12, Diameter rectified as 9.53 mm Port2 Depth rectified as 28.575 mm	-	❶	❶
2	Hydac 2-way Ball Valves	2-Way BV KHP-10	All BHs - Step0 & Step12 Depth rectified as 0.63" (16mm) & 0.787" (20mm)	❶	❶	❶
		2-Way BV KHP-16	All BHs - Step0 & Step12 Depth rectified as 0.63" (16mm) & 0.787" (20mm)	❶	❶	❶
		2-Way BV KHP-20	All BHs - Step0 & Step12 Depth rectified as 0.787" (20mm) & 0.945" (24mm)	❶	❶	❶
		2-Way BV KHP-25	All BHs - Step0 & Step12 Depth rectified as 0.787" (20mm) & 0.945" (24mm)	❶	❶	❶
		2-Way BV KHP-32	All BHs - Step0 & Step12 Depth rectified as 0.945" (24mm) & 1.102" (28mm)	❶	❶	❶
		2-Way BV KHP-40	All BHs - Step0 & Step12 Depth rectified as 1.26" (32mm) & 1.496" (38mm)	❶	❶	❶
		2-Way BV KHP-50	All BHs - Step0 & Step12 Depth rectified as 1.575" (40mm) & 1.89" (48mm)	❶	❶	❶
3	BIERI	NG4	Cavity name renamed as "DMM-4E"	❶	❶	❶
		NG6	Cavity name renamed as "AVM-4E"	❶	❶	❶
4	Integrated Hydraulics	A6835	Step1 Diameter rectified as 1.4" (35.58mm)	❶	❶	❶

Deleted Cavity

| 1 | DMIC | BVMM-0750 | Non-Standard Outline dimensions rectified | ❶ | ❶ | ❶ |

Newly Introduced Cavities:

S. No	Library Name	Cavity/Footprint Name	Operations	English		German
				Inch	MM	MM
1	Argo-Hytos	D4 K2 K3 LA3 QD3 QK2 QL3 QM3 QP2 QT2 QY3 R3 R4 RB2 RB3 S3 T3 U3 U4 V4 W3/X3 Y3 Z4	Newly Introduced	❶	❶	❶
2	BIERI	DAM-4E DV700-6E DVM-4E ERVM-4E ERVPM-10E WVM-4B-2/2 WVM-4B-3/2 WVM-4B-3/3 WVM-4B-4/2 WVM-4B-4/3	Newly Introduced	❶	❶	❶
3	Caproni	CC 06-2 CC 08-2 CC 08-3 CC 08-3A CC 08-4 CC 10-2 CC 10-3 CC 10-3S CC 10-4	Newly Introduced	❶	❶	❶

S. No	Library Name	Cavity/Footprint Name	Operations	English		German
4	CBF Hydraulic	CAV00002 CAV00003 CAV00006 CAV00007 CAV00008 CAV00009 CAV00010 CAV00016 CAV00017 CAV00018 CAV00019 CAV00026 CAV00027 CAV00028 CAV00029 CAV00030 CAV00031 CAV00032 CAV00033 CAV00034 CAV00037 CAV00039 CAV00040 CAV00041 CAV00042 CAV00043 CAV00044 CAV00045 CAV00048 CAV00049 CAV00050 CAV00051 CAV00064 CAV00076	Newly Introduced	❶	❶	❶
5	Deltrol	R05-2 R06-2 R08-2 S210 S310 S410 ZP42 ZP43 ZP62 ZP63	Newly Introduced	❶	❶	❶
6	Doering	C-8502 C-8542 C-8543 C-8544	Newly Introduced	❶	❶	❶
7	Fer Hydraulik	CFH003 CFH004 CFH006 CFH010 CFH025 CFH026	Newly Introduced	❶	❶	❶

S. No	Library Name	Cavity/Footprint Name	Operations	English		German
		CFH029 CFH030 CFH032 CFH042 CFH043 CFH054 CFH055 CFH056 FPRC80 - CFH025				
8	Flucom	S 20/2 S 20/3 S 20/4 S 28/2 S 28/3 S 28/4 S 29/2 S 30/2 S 30/3 S 30/4 S 32/2B S 32/2P S 50/2 S 50/3 S 50/4 S 70/2 S 70/3 S 70/4	Newly Introduced	❶	❶	❶
9	Fluid-Press	21261 21331 22161 22182 22201 22205 22221 22222 22261 22331	Newly Introduced	❶	❶	❶

S. No	Library Name	Cavity/Footprint Name	Operations	English		German
10	HBS	HBS.02.G.03A HBS.04.G.03A HBS.06.G.02A HBS.08.G.02A HBS.38.M.04A HBS.38.S.02A HBS.39.M.03A HBS.42.M.03A HBS.46.M.03A HBS.46.M.03B HBS.48.M.03A HBS.52.M.03A HBS.94.U.04A HBS.95.S.03A HBS.96.S.03A HBS.96.U.04A HBS.99.S.02A HBS.99.S.02B	Newly Introduced	❶	❶	❶
11	Hoerbiger	E10 E16 E32 E40 E50 SVN VDBE04 VDBE06 VDBVE16E VDBVE32E	Newly Introduced	❶	❶	❶
12	Hytorc	ASE4 ASE6 DBE 2 DBE 4 ERV 3 ERV 4 ERV 6	Newly Introduced	❶	❶	❶
13	Jung Fluidtechnik	G 1/8-D4 M14x1.5-D6 M14x1.5-D8-D3 M14x1.5-D8-D4 M20x1.5-D15 M20x1.5-D15-D14 UNF 3/4-16-D12.7	Newly Introduced	❶	❶	❶
14	Moog	DPCMEE16S8 DPCMEE20S8 REE NB10 REE NB16 REE NB25	Newly Introduced	❶	❶	❶

S. No	Library Name	Cavity/Footprint Name	Operations	English		German
15	Wandfluh	1-1039.4 1-1058.4 1-1286.4 1-1293.4 1-1301.4 1-1311.4 1-1325.4 1-1344.4 1-1352.4 1-1353.4 1-1357.4 1-1359.4 1-1364.4 1-1367.4 1-1375.4 1-1376.4 1-1381.4 1-852.4 2-641.4 3-399.4 5-2711.4 5-2754.4 5-2843.4 5-3128.4 5-3129.4 8-005.3	Newly Introduced	**0**	**0**	**0**

Date: Apr 18, 2020

Modified Cavities: **Revision History: R1.015**

S. No	Library Name	Cavity/Footprint Name	Operations	English Inch	English MM	German MM
1	Sun Hydraulics	T-10A	Step0, Angle changed from 90° to 59° Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-11A	Step0, Angle changed from 90° to 59° Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-13A	Step0, Angle changed from 90° to 59° Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-162A	Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-162DP-INSERTABLE	Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-163A	Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-21A	Step0, Angle changed from 90° to 59° Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-22A	Step0, Angle changed from 90° to 59° Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-2A	Step0, Angle changed from 90° to 59° Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-31A	Machining Sequence Operation3 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-32A	Step0, Angle changed from 90° to 59° Machining Sequence Operation3 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-33A	Step0, Angle changed from 90° to 59° Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-34A	Step0, Angle changed from 90° to 59° Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-3A	Step0, Angle changed from 90° to 59° Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-52A	Step0, Angle changed from 90° to 59° Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-52AD	Step0, Angle changed from 90° to 59° Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶

S.No	Library Name	Cavity/Footprint Name	Operations	English		German
				Inch	MM	MM
		T-54A	Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-5A	Step0, Angle changed from 90º to 59° Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-61A	Step0, Angle changed from 90º to 59° Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-62A	Step0, Angle changed from 90º to 59° Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-8A	Step0, Angle changed from 90º to 59° Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
		T-9A	Machining Sequence Operation2 changed from "C'Bore" to "DRILL".	❶	❶	❶
2	Slip-In Cartridge-ISO 7368	BC-09-2-B	Port2, Depth rectified as 2.077" (52.75mm)	❶	❶	❶
		BG-13-2-A	Port2, Depth rectified as 5.138" (130.50)	❶	❶	❶
3	Walvoil	08/2	Step6 dimensions deleted Step12 Diameter, Depth & Angle rectified as 0.47" (12mm), 1.5" (40mm) & 59º	❶	❶	❶
		10/2	Step6 dimensions deleted Step12 Diameter, Depth & Angle rectified as 0.57" (14.5mm), 1.8" (40mm) & 59º	❶	❶	❶
		12/2	Step6 dimensions deleted Step12 Diameter, Depth & Angle rectified as 0.85" (21.5mm), 2.5 (60mm) & 59º	❶	❶	❶
		16/2	Step6 dimensions deleted Step12 Diameter, Depth & Angle rectified as 1" (25.5mm), 2.75" (70mm) & 59º	❶	❶	❶
4	Screw-In Cartridge-ISO 7789	18-01-0-07	Step0 Diameter rectified as 1.26" (32mm)	❶	❶	❶
		18-02-0-07	Step0 Diameter rectified as 1.26" (32mm)	❶	❶	❶
		20-01-0-07	Step0 Diameter rectified as 1.496" (38mm)	❶	❶	❶
		20-02-0-07	Step0 Diameter rectified as 1.496" (38mm)	❶	❶	❶
		20-03-0-07	Step0 Diameter rectified as 1.496" (38mm)	❶	❶	❶
		20-04-0-07	Step0 Diameter rectified as 1.496" (38mm)	❶	❶	❶
		20-05-0-07	Step0 Diameter rectified as 1.496" (38mm)	❶	❶	❶
		22-01-0-07	Step0 Diameter rectified as 1.654" (42mm)	❶	❶	❶
		22-02-0-07	Step0 Diameter rectified as 1.654" (42mm)	❶	❶	❶

S.NO	Library Name	Cavity/Footprint Name	Operations	English		German
				Inch	MM	MM
		22-03-0-07	Step0 Diameter rectified as 1.654" (42mm)	❶	❶	❶
		22-04-0-07	Step0 Diameter rectified as 1.654" (42mm)	❶	❶	❶
		22-05-0-07	Step0 Diameter rectified as 1.654" (42mm)	❶	❶	❶
		22-06-0-07	Step0 Diameter rectified as 1.654" (42mm)	❶	❶	❶
		22-07-0-07	Step0 Diameter rectified as 1.654" (42mm)	❶	❶	❶
		22-08-0-07	Step0 Diameter rectified as 1.654" (42mm)	❶	❶	❶
		22-09-0-07	Step0 Diameter rectified as 1.654" (42mm)	❶	❶	❶
		27-01-0-07	Step0 Diameter rectified as 1.89" (48mm)	❶	❶	❶
		27-02-0-07	Step0 Diameter rectified as 1.89" (48mm)	❶	❶	❶
		27-03-0-07	Step0 Diameter rectified as 1.89" (48mm)	❶	❶	❶
		27-04-0-07	Step0 Diameter rectified as 1.89" (48mm)	❶	❶	❶
		27-05-0-07	Step0 Diameter rectified as 1.89" (48mm)	❶	❶	❶
		27-06-0-07	Step0 Diameter rectified as 1.89" (48mm)	❶	❶	❶
		27-07-0-07	Step0 Diameter rectified as 1.89" (48mm)	❶	❶	❶
		27-08-0-07	Step0 Diameter rectified as 1.89" (48mm)	❶	❶	❶
		27-09-0-07	Step0 Diameter rectified as 1.89" (48mm)	❶	❶	❶
		33-01-0-07	Step0 Diameter rectified as 2.284" (58mm)	❶	❶	❶
		33-02-0-07	Step0 Diameter rectified as 2.284" (58mm)	❶	❶	❶
		33-03-0-07	Step0 Diameter rectified as 2.284" (58mm)	❶	❶	❶
		33-04-0-07	Step0 Diameter rectified as 2.284" (58mm)	❶	❶	❶
		33-05-0-07	Step0 Diameter rectified as 2.284" (58mm)	❶	❶	❶
		33-06-0-07	Step0 Diameter rectified as 2.284" (58mm)	❶	❶	❶
		33-07-0-07	Step0 Diameter rectified as 2.284" (58mm)	❶	❶	❶
		33-08-0-07	Step0 Diameter rectified as 2.284" (58mm)	❶	❶	❶
		33-09-0-07	Step0 Diameter rectified as 2.284" (58mm)	❶	❶	❶
		42-01-0-07	Step0 Diameter rectified as 2.913" (74mm)	❶	❶	❶
		42-02-0-07	Step0 Diameter rectified as 2.913" (74mm)	❶	❶	❶
		42-03-0-07	Step0 Diameter rectified as 2.913" (74mm)	❶	❶	❶

S.NO	Library Name	Cavity/Footprint Name	Operations	English		German
				Inch	MM	MM
		42-04-0-07	Step0 Diameter rectified as 2.913" (74mm)	⓪	⓪	⓪
		42-05-0-07	Step0 Diameter rectified as 2.913" (74mm)	⓪	⓪	⓪
		42-06-0-07	Step0 Diameter rectified as 2.913" (74mm)	⓪	⓪	⓪
		42-07-0-07	Step0 Diameter rectified as 2.913" (74mm)	⓪	⓪	⓪
		42-08-0-07	Step0 Diameter rectified as 2.913" (74mm)	⓪	⓪	⓪
		42-09-0-07	Step0 Diameter rectified as 2.913" (74mm)	⓪	⓪	⓪

Newly Introduced Cavities:

S.NO	Library Name	Cavity/Footprint Name	Operations	English		German
				Inch	MM	MM
1	Sun Hydraulics	T-150A T-30A	Newly Introduced	⓪	⓪	⓪
2	ATOS	CART M-3 CART M-4 CART M-5 CART M-6 CART ARE-15 CART ARE-20	Newly Introduced	⓪	⓪	⓪

Date: Jan 04, 2020.

Revision History: R1.014

S. No	Library Name	Cavity/Footprint Name	Operations	English		German
				Inch	MM	MM
1	Walvoil	08/2 08/2 A 08/3 08/4 16/2 16/2 A 16/3 16/4 20/3 VMP 10 VMP 12 VMP 20 VMP 34 VMP 5 VMPD 100 VMPD 12 VMPD 34 VMPD 38 VOC 120 VOC 60 10/2 10/2 A 10/3 10/4 12/2 12/2 A 12/3 12/4 VPR/2/RL/C/38 VSE/P/2-150 VSE/P/2-70 VUI 100 VUI 12 VUI 34 VUI 38 VUS/INC 12 VUS/INC 14 VUS/INC 34 VUS/INC 38	Newly Introduced	❶	❶	❶
2	BIERI	NG 4 NG 6	Newly Introduced	❶	❶	❶
3	High Pressure Equipment	LF12 LF16 LF24 LF4 LF6 LF9	Newly Introduced	❶	❶	❶

S. No	Library Name	Cavity/Footprint Name	Operations	English		German
				Inch	MM	MM
4	HYDAC Needle Valves	DRVP-06 DRVP-08 DRVP-10 DRVP-12 DRVP-16 DRVP-20 DRVP-25 DRVP-30 DVP & DRVP-40 DVP-06 DVP-08 DVP-10 DVP-12 DVP-16 DVP-20 DVP-25 DVP-30	Newly Introduced	❶	❶	❶
5	Thomas Magnete	TC06013 TC06025 TC06023 TC06024	Newly Introduced	❶	❶	❶
6	DMIC	BVMM-0750	Newly Introduced	❶	❶	❶
7	MPFILTRI	TAV.2616	Newly Introduced	❶	❶	❶
8	Brevini	CN032005	Newly Introduced	❶	❶	❶
9	OILGEAR	HS-1200-5	Newly Introduced	❶	❶	❶
10	Schroeder	KF50	Newly Introduced	❶	❶	❶

R1. 013

Sl No.	Library Name	Cavity/Footprint Name	Operation	English		German
				Inch	MM	MM
1	Bucher Hydraulics	AGA AT AV AW AX AY DA DC DD DF DH DJ DL DN DP DU EB EC ECY EF ER GB KTU MDD RC RCY	Newly introduced	❶	❶	❶
		AA AB AC AD AE AEZ AG AGS AL ALM AM AN AS CA	Newly Introduced	❶	-	-

| 2 | Danfoss (Comatrol) | CP04-2 CP04-3 CP08-3L CP10-2 CP10-3 CP12-2 CP12-3 CP12-3M CP12-3S CP12-4 CP16-4 CP20-3S FC-010 FC-013 FC-144 FC-304 FC-336 NCS04/2 NCS04/3 NCS04/4 NCS06/2 NCS06/3 NCS06/4 NCS12/2 NCS12/3 NCS12/4 NCS12/5 SDC08-2 SDC08-3 SDC08-4 SDC10-2 SDC10-3 SDC10-3S SDC10-4 SDC12-2 SDC12-3 SDC16-2 SDC16-3 SDC16-3S SDC16-4 SDC20-2 SDC20-3 SDC20-4 VME06 VME07 VME08 | Existing Sauer Danfoss library updated and library name renamed as Danfoss (Comatrol). | ❶ | ❶ | ❶ |

3	Hydraforce	HVC06-2	Newly introduced	❶	❶	❶
		HVC06-3				
		HVC06-B3				
		HVC08-2				
		HVC08-3				
		HVC10-2				
		HVC10-3				
		HVC10-4				
		HVC12-2				
		HVC12-3				
		HVC12-4				
		HVC12-S3				
		HVC12-S6				
		HVC16-2				
		HVC16-3				
		HVC16-3SPEC				
		HVC16-4				
		HVC16-DPCV				
		HVC16-PCV				
		HVC16-S3				
		HVC16-S5				
		HVC32-4				
		HVC42-J4				
		HVC42-M2				
		HVC42-M4				
		HVC42-S3				
		HVC42-S3A				
		HVC42-S5				
		HVC42-S6				
		VC06-1				
		VC06-B2				
		VC08-5				
		VC08-DCV				
		VC10-DCV				
		VC10-L3				
		VC10-L4				
		VC10-S4				
		VC12-DCV				
		VC12-PCV				
		VC16-3SPCL				
		VC16-4SPCL				
		VC20-S3A				
		VC42-S5				
		VC-T003				

4	Winner	04E-2	Newly introduced	❶	❶	❶
		08W-2				
		08W-3				
		08W-4				
		10W-2				
		10W-3				
		10W-4				
		10WB-3				
		12B-3				
		12W-2				
		12W-3				
		12W-4				
		16W-2				
		16W-4				
		16WC-3				
		17E-2				
		19E-2				
		20M-2				
		20MB-2				
		20MC-2				
		20MS-3				
		20WS-3				
		20WS-4				
		21E-2				
		22M-2				
		27M-3				
		28M-2				
		30R-2				
		33MC-2				
		35M-2				
		35MV-2				
		42W-2				

Sl No.	Library Name	Cavity/Footprint Name	Operation	English		German
				Inch	MM	MM
1	Rexroth	CA-08A-3C	Step2, Depth rectified as N/A(12mm) Step3, Depth & Angle rectified as 0.54"(13.55mm) & 20° Step4, Depth & Angle rectified as 1.17"(29.80mm) & 20° Port2, Depth rectified as 1.043"(N/A in mm)	𝟎	𝟎	𝟎
		CA-08A-3N	Step3, Depth rectified as 0.68"(17.05mm) Step4, Depth rectified as 1.23"(31.30mm)	𝟎	𝟎	𝟎
		CA-08A-4N	Step3, Depth rectified as 0.68"(17.05mm) Step4, Depth rectified as 1.23"(31.30mm) Step5, Depth rectified as 1.78"(45.34mm)	𝟎	𝟎	𝟎
		CA-10A-3C	Step3, Depth & Angle rectified as 0.62"(15.53mm) & 20° Step4, Depth rectified as 1.49"(37.83mm)	𝟎	𝟎	𝟎
		CA-10A-3N	Step3, Depth rectified as 0.75"(18.87mm) Step4, Depth rectified as 1.47"(37.30mm)	𝟎	𝟎	𝟎
		CA-10A-4N	Step3, Depth & Angle rectified as 0.84"(21.04mm) & 20° Step4, Depth rectified as 1.47"(37.33mm) Step5, Depth rectified as 2.10"(53.30mm)	𝟎	𝟎	𝟎
		CA-12A-2N	Step3, Depth & Angle rectified as 1.30"(34.99mm) & 20°	𝟎	𝟎	𝟎
		CA-12A-3C	Step3, Depth rectified as 0.99"(25.00mm) Step4, Depth rectified as 1.86"(47.33mm)	𝟎	𝟎	𝟎
		CA-12A-3N	Step3, Depth rectified as 1.38"(35.00mm) Step4, Depth rectified as 2.34"(59.33mm)	𝟎	𝟎	𝟎
		CA-12A-4N	Step3, Depth rectified as 1.38"(35.00mm) Step4, Depth rectified as 2.34"(59.33mm) Step5, Depth rectified as 3.36"(85.30mm)	𝟎	𝟎	𝟎
		CA-16A-2N	Step3, Depth & Angle rectified as 1.27"(31.92mm) & 20°	𝟎	𝟎	𝟎
		CA-16A-3N	Step3, Depth rectified as 1.25"(31.42mm) Step4, Depth rectified as 2.43"(61.80mm)	𝟎	𝟎	𝟎
		CA-16A-4N	Step3, Depth rectified as 1.25"(31.42mm) Step4, Depth rectified as 2.43"(61.80mm) Step5, Depth rectified as 3.56"(90.33mm)	𝟎	𝟎	𝟎
		CA-20A-3C	Step3, Depth rectified as 0.86"(24.00mm) Step4, Depth rectified as 2.41"(61.15mm)	𝟎	𝟎	𝟎
		CA-20A-2N	Step3, Depth & Angle rectified as 1.67"(44.50mm) & 20°	𝟎	𝟎	𝟎
		CA-20A-3N	Step3, Depth rectified as 1.67"(44.50mm) Step4, Depth rectified as 3.27"(83.15mm)	𝟎	𝟎	𝟎
		CA-20A-4N	Step3, Depth rectified as 1.67"(44.50mm) Step4, Depth rectified as 3.25"(82.65mm) Step5, Depth rectified as 4.97"(126.30mm)	𝟎	𝟎	𝟎

2	Direct.Control-ISO 4401:2005	4401-02-01-0-05 4401-03-02-0-05 4401-03-03-0-05 4401-05-04-0-05 4401-05-05-0-05 4401-05-06-0-05 4401-07-07-0-05 4401-08-08-0-05 4401-10-09-0-05	Existing ISO4401:1994 updated per ISO4401:2005 and newly introduced as separate library	❶	❶	❶

R1.011

Sl No.	Library Name	Cavity/Footprint Name	Operation	English		German
				Inch	MM	MM
1	HYDAC Filters	DF-QE/MHE-330-1320	Port IN & OUT swapped	❶	❶	❶
2	HYDAC Filters	QE/OAI-160-280	Port IN & OUT swapped	❶	❶	❶

R1.010

Sl No.	Library Name	Cavity/Footprint Name	Operation	English		German
				Inch	MM	MM
1	HYDAC	FC12-2	Port 2 Depth rectified as 1.006"/25.55mm.	❶	❶	❶
2	HydraForce	VC06-2	Cavity data modified	-	❶	❶
3	Direct.Control-NFPA-T3.5.1	D07	BH5, Y axis location rectified as 15.9	-	❶	❶
4	Slip-In Cartridge-ISO 7368	BC-09-2-A	Port 2 Depth rectified as 2.077"/52.75mm.	❶	❶	❶
5	Rexroth	MSR20KE	Port 2 Dia & Depth rectified as 1.181" / 30mm & 1.614" / 41mm.	❶	❶	❶

R1.009

Sl No.	Library Name	Cavity/Footprint Name	Operation	English		German
				Inch	MM	MM
1	Parker	C12-3L	Step 6 dia rectified as 0.876.	❶	-	-
2	Pressure Control-ISO 6264	6264-06-09-97	LP3 name rectified as LP	❶	❶	❶
3	HYDAC 2-Way Ball Valves	2-Way BV KHP-10 2-Way BV KHP-16 2-Way BV KHP-20 2-Way BV KHP-25 2-Way BV KHP-32 2-Way BV KHP-40 2-Way BV KHP-50	Newly introduced	❶	❶	❶
4	HYDAC Filters	CF-*-20 CP-SAE 15 CP-SAE 40 DF-MA/MHA-160-280 CP-SAE 120 DF-MA-60-140 DFP 160-280 DFP/DFPF 330-1320 DFP/DFPF 60-140 DFPF 160-280 DF-QE/MHE-330-1320 DF-QE-160-280 DF-QE-30 DF-QE-60-140 HF2P-04-08 HF4P-09-18-27 QE/OAI-160-280	Newly introduced	❶	❶	❶
5	Polyhydron	C-06 C-10 C-20 C-30 CBS20S DPR06 DPR10 DPR20 PPR06	Newly introduced	❶	❶	❶

SI No.	Library Name	Cavity/Footprint Name	Operation	English		German
				Inch	MM	MM
6	Square Flanges – ISO 6164	250 Bar - DN-10 250 Bar - DN-13 250 Bar - DN-19 250 Bar - DN-25 250 Bar - DN-32 250 Bar - DN-38 250 Bar - DN-51 250 Bar - DN-56 250 Bar - DN-63 400 Bar - DN-10 400 Bar - DN-13 400 Bar - DN-19 400 Bar - DN-25 400 Bar - DN-32 400 Bar - DN-38 400 Bar - DN-51 400 Bar - DN-56 400 Bar - DN-63 400 Bar - DN-70 400 Bar - DN-80	Newly introduced	❶	❶	❶

R1.008

SI No.	Library Name	Cavity/Footprint Name	Operation	English		German
				Inch	MM	MM
1	Parker	3J	Port 3 Dia & Depth rectified as 0.494 & 0.812.	❶	-	-

R1.007

SI No.	Library Name	Cavity/Footprint Name	Operation	English		German
				Inch	MM	MM
1	Parker	C16-3	Step 4 Dia. rectified as 1.173.	❶	-	-
2	SAE Flange 518	1" Code 61, 2-1/2" Code 61 1-1/2" Code 62 2" Code 62	Bolt Holes Dia rectified	-	❶	❶

R1.006

Sl No.	Library Name	Cavity/Footprint Name	Operation	English		German
				Inch	MM	MM
1	HAWE Valve Interface	SLF5	P cavity location rectified as 49.3 mm	❶	❶	❶
2	HAWE SICV Cavities	All Cavities	Missing Machining Sequence "$STEP0" in Diameter Column of Row# 2, added.	❶	-	-
3	Comp. Flow Control-ISO 6263	6263-02-01-*-97 6263-03-03-*-97 6263-06-05-*-97 6263-06-07-*-97 6263-07-09-*-97 6263-07-11-*-97 6263-08-3-*-97 6263-08-I5*-97	Newly introduced	❶	❶	❶
4	Duplomatic	D-10A D-10 B D-10C D-10D D-10E KT08 KT08U RS2-I RS3-I RS4-I RS5-I RS6-I RSN2-I RSN3-I RSN4-I RSN5-I VR2-I VR5-I VR7-I VSK1 VSK2	Newly introduced	❶	❶	❶

5	Parker	100-1 2R 2X 3A 3C 3K 3M 3X 4C 53-1 54-1 5A 68-1 91-1 C12-3L C12-4L CAV0W-2 CAVSW-3 CAVT21A	Newly introduced	❶	❶	❶
		C04-2	Port 2, depth rectified as 0.423"	❶	-	-
6	SAE Ports-J1926-1	All Ports	Step2 Depth & Step3 Diameter rectified	❶	❶	❶
7	Screw-In Cartridge-ISO 7789	All Cavities	Spot Face diameter redefined per ISO 6469-1	❶	❶	❶

R1.005

SI No.	Library Name	Cavity/Footprint Name	Operation	English		German
				Inch	MM	MM
1	Direct.Control-DIN24340 Form A	All Footprints	For Drill Holes, the Max Drill Diameter is defined same as Step 0 Diameter.	**0**	**0**	**0**
2	Direct.Control-DIN24340 Form B	All Footprints		**0**	**0**	**0**
3	Direct. Control-ISO 4401	All Footprints		**0**	**0**	**0**
4	Direct.Control-NFPA-T3.5.1	All Footprints		**0**	**0**	**0**
5	EPS Flanges	All Footprints		-	**0**	-
6	Hawe Valve Interface	All Footprints		-	**0**	**0**
7	Moog	All Footprints		**0**	**0**	**0**
8	Olmsted Flanges	All Footprints		-	**0**	-
9	Pr.Red, Seq, Unload-ISO 5781	All Footprints		**0**	**0**	**0**
10	Pressure Control-ISO 6264	All Footprints		**0**	**0**	**0**
11	Roetelmann Ball Valves	All Footprints		**0**	**0**	**0**
12	SAE Flanges-J518	All Footprints		-	**0**	**0**
13	Servo Valve-ISO 10372	All Footprints		**0**	**0**	**0**
14	Slip-In Cartridge-ISO 7368	All Footprints		-	**0**	**0**
15	Square Flanges	All Footprints		-	**0**	-
16	Valve Patterns-NFPA-T3.5.1	All Footprints		**0**	**0**	**0**
17	Eaton	All Footprints		**0**	**0**	**0**
18	Bucher Hydraulics	AGS		-	**0**	**0**

R1.004

SI No.	Library Name	Cavity/Footprint Name	Operation	English		German
				Inch	MM	MM
1	Direct.Control-NFPA-T3.5.1	D02 D03	LP Depth set to 4 mm.	-	**0**	**0**
		D07 D08 D10	LP1 & LP2 Depth set to 8 mm.	-	**0**	**0**

R1.003

Sl No.	Library Name	Cavity/Footprint Name	Operation	English		German
				Inch	MM	MM
1	Direct. Control-ISO 4401	4401-05-04-0-94 4401-05-05-0-94	Extra Envelope deleted. Start and End point of line segments corrected.	**0**	**0**	**0**
2	BSP Ports-ISO 1179-1	All Ports	Spot face depth is changed to 1 mm and 0.039".	**0**	**0**	**0**
3	BSPT Ports-ISO 1179-1	All Ports	BSPT newly introduced.	**0**	**0**	**0**