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General characteristics of Hydraulic Equipment

Listing of characteristics	in accordance with VDI	3267 3284		
Terms and symbols	as per DIN ISO 1219	as per DIN ISO 1219		
Units	SI units, as per the "reg	SI units, as per the "regulation regarding the law relating to units of measurement" dated June 26, 1970		
Dimensions without tolerances	Deviating from this, the	General tolerances as per DIN ISO 2768-mH Deviating from this, the following apply: cast parts, dimensional variation GTB 16 as per DIN 1686 forged pieces, forge quality F as per DIN 7526		
Dimensional drawings		Unless otherwise stated, hydraulic elements are shown in off-position, i.e. without energy supply or in the case of clamping elements in the unclamped position.		
Mounting position	Any, if not otherwise st	ated		
Ambient temperature	t _{u min.} = - 10 °C t _{u max.} = + 50 °C			
Temperature range of fluid	t _{m min.} = + 10 °C t _{m max.} = + 60 °C	$t_{m min.} = +10 \degree C$ $t_{m max.} = +60 \degree C$		
Oil recommendation	Oil temperature [°C]	Hydraulic oil as per DIN 51524-2	Application	
		HLP 22 HLP 32 HLP 46 ns: nuals and hydraulic circuit diac ther operating conditions.	Short-time operation (poppet valves) Clamping fixtures (poppet valves) Industrial hydraulics (spool valves) grams.	
Oil filtering		Max. degree of pollution of the pressure fluid class 20/17/13 as per ISO 4406 The need for a fine filtration is indicated on the corresponding data sheet		
Seals	Material	Trade name	Temperature range** Hydraulic fluid	
	NBR * (nitrile butadiene rubb	e.g. perbunan er)	-30 + 80°C (100°C) *** HLP −10 + 55°C HFA, HFB, HFC **	
	FKM (fluor caoutchouc)) e.g. VITON ®	-20+ 80°C (100°C) *** HLP -20+150°C (200°C) *** HFDU ****	
	 Standard, unless of Generally applica The temperature the maximum op Highly inflammak When using these 	 FFKM (perfluoroelastomer) ISOLAST * e.g. HTJ 8325 -10+150°C (250°C) *** HFDR, HFDU **** * Standard, unless otherwise stated on the data sheet. ** Generally applicable, unless otherwise stated on the data sheet. *** The temperature in brackets is a maximum value that must not be achieved simultaneously with the maximum operating pressure or the admissible lifting speed. Please contact us. **** Highly inflammable hydraulic fluids as per ISO 12922 When using these liquids, the respective manufacturer should be consulted, above all with regard to the maximum operating pressure and the sealing compatibility. 		
Connecting thread		British standard pipe thread (Withworth form) with screw hole form X as per DIN 3852 sheet 2 (for cylindrical screwed plugs)		
Fittings	form B as per DIN 3852 form E as per DIN 3852	as per DIN 2353, screwed plugs form B as per DIN 3852 sheet 2 (sealing by knife edge) or form E as per DIN 3852 page 11 (sealing by soft seal). Do not use additional sealing materials such as Teflon ribbon!		
Hydraulic cylinders, hydraulic block cylinders	Data sheets B 1.2811, B	1.282, B 1.590, B 1.7385		
Connecting dimensions	Flange mounting dime Cylinders with sroke en	Cylinders without stroke end cushioning: Flange mounting dimensions as per DIN ISO 6020 Cylinders with sroke end cushioning: As per DIN ISO 6020, however with the exception of the shorter overall length		
Adm. stroke speed	$v_{max.} = 0.50 \text{ m/s}$			
Piston stroke		ard strokes as per DIN 323 R 10		
Leakage rate	When extending the pi lubrication of the seals enote: The wiper avoids the ei When retracting the pis stressed wiper lip what A visible leakage in the	iston rod, the double sealing le and thus a high service life. ntry of dirt and liquids in the hy ston rod, a part of the previous can cause a small leakage ove	ts pass only a micro-oil film to ensure the required ydraulic system. Iy extended oil film will be wiped off by the pre-	

Subject to modifications

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