

CHARACTERISTICS	
1. General	
Symbol (example)	detailed A B simplified
Typen Design	13 CR - X - G T13 CR - X - XXAdjustment throttle:flat rotary valve with triangular notchCheck valve:spring-loaded ball valve
Weight	1 kg
Mounting position	any
Directing of volume flow	A to B; B to A unthrottled back flow with check valve
Ambiente temperature	-25°C to +80°C
2. Hydraulic characteristics	210 har for arifica size 4 6 may parmitted pressure difference
Rateu pressure / max. pressure	210 bar, for onlice size 4 - o max. permiteu pressure unerence
Hydraulic fluid	Hydraulic oil according to DIN 51 524 and 51 525 and flame resistant hydraulic fluids of the group HFA, HFB and HFC. Use anhydrous and synthetic flame resistant hydraulic fluids take
Hydraulic fluid temperature range Viscosity range	special sealing -20℃ to +80 ℃ 5 - 350 mm²/s
Max. permissible volume flow via check valve	30 l/min
Contamination level / filtering	General permit table class 16/13 according to ISO 4406 or 7 according to NAS 1638 (recommended filter: minimum retaining rate $\beta_{5-10} \ge 75$ )
3. type of actuation	mechanical via tappets
Adjusting force	50 - 100 N (according to operating pressure)
Adjusting hub	7 mm at tappet
CHARACTERISTICS	
Δ <b>p-Q-characteristics</b> ; Δ <b>p</b> = <b>f</b> ( <b>Q</b> ) The volume flow dependency on the orifice size and pressure difference on the orifice, when the orifice is full open. Maximum orifice profiles of the orifice size in mm <sup>2</sup> : 1 = 0,1; $2 = 0,3$ ; $3 = 1,0$ ; $4 = 3,0$ ; $5 = 8,3$ ; 6 = 12,8	$v_{i}$
$\Delta$ p-Q-characteristics; $\Delta$ p = f (Q) Fig. 2 shows the pressure loss of the valve for the volume flow direction B to through the by-pas return with the setting screen closed.	
Valve description	
1. Valve With this valve the throttle profile can be adjusted The throttle orifice is a flat slide and is useably like is achieved until very small values. For a wide ran	between zero and the complied opening with a translation of 2:1. a shear-catch-principle so that a defined volume flow without leakage oil ge of application the rated flow is not affected by viscosity or

contamination.

2. Materials

The valve components are made of structural steel. The external valve parts are black-finished, the tappet is not corrosion-resistant. All wear parts are hardened.

For applications in excess of the given specification, please contact Schiedrum. All specified parameters are partially based on long user's experience and partly on measurements made in laboratories. The data are typical of the valve and can deviate in series. All measurements were carried out on a test stand with an oil viscosity of  $36 \text{mm}^2/\text{sec}$  and a filter mesh of <  $10 \,\mu\text{m}$ . All data given here should be used as description of the product only and they are not to understand as warranty in the sense of law.



Subject to chances for further developments.

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