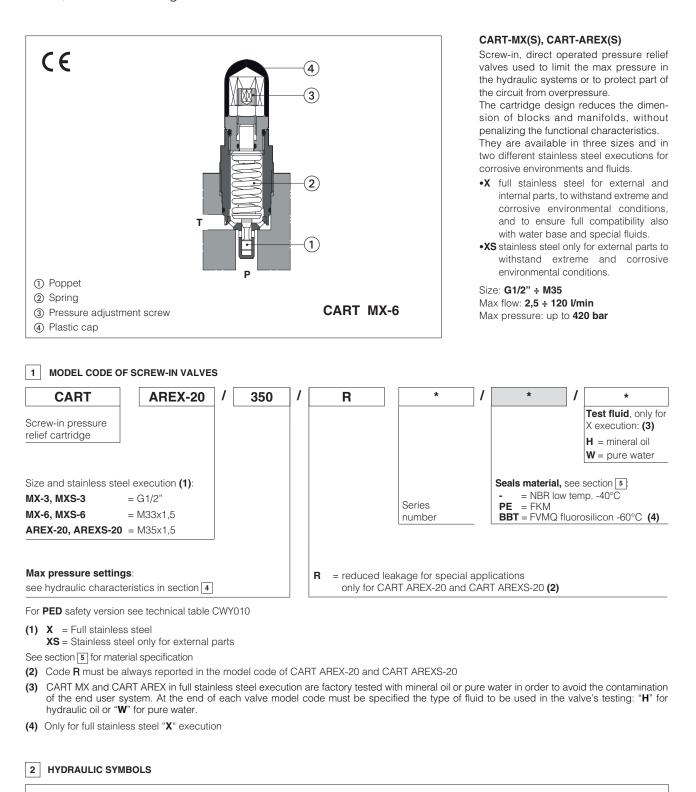


Stainless steel pressure relief valves

direct, screw-in cartridges



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Ĺ	P CART-*X	
_		
	CART-*XS	

3 GENERAL CHARACTERISTICS

Assembly position / location	Any position		
Cavity	See section B		
MTTFd values according to EN ISO 13849	150 years, for further details see technical table P007		
Ambient temperature	Standard = $-40^{\circ}C \div +70^{\circ}C$ /PE option = $-20^{\circ}C \div +70^{\circ}C$ /BBT option = $-60^{\circ}C \div +70^{\circ}C$		
Storage temperature range	Standard = $-40^{\circ}C \div +80^{\circ}C$ /PE option = $-20^{\circ}C \div +80^{\circ}C$ /BBT option = $-60^{\circ}C \div +80^{\circ}C$		
Compliance	RoHS Directive 2011/65/EU as last update by 2015/863/EU REACH Regulation (EC) n°1907/2006		

4 HYDRAULICS CHARACTERISTICS

Valve model		CART MX-3 CART MXS-3	CART MX-6 CART MXS-6	CART AREX-20 CART AREXS-20
Max pressure setting	[bar]	50, 100, 210, 350, 420	50, 100, 210, 350, 420	50, 100, 210, 315, 400
Pressure range (1)	[bar]	4÷50, 6÷100, 7÷210, 8÷350, 15÷420	2÷50, 3÷100, 8÷210, 15÷350, 15÷420	3÷50, 5÷100, 6÷210, 8÷315, 10÷400
Max flow	[l/min]	2,5	40	120

(1) The values correspond to the min and max regulation of the valve's craking pressure

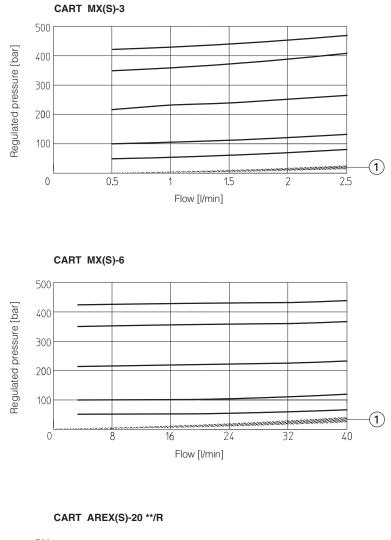
5 MATERIALS SPECIFICATION

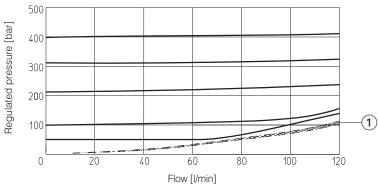
Valve code	Valve type	Valve bodv	Internal parts	ernal parts Spring		Seals		
varve boue	valve code valve type	valve body	internal parts	opinig	std	/PE	/BBT	
CART-*X	Screw-in	AISI 316L	AISI 316L, 420B, 440C	AISI 302	NBR 70 Sh low temp	FKM (viton)	FMVQ (fluorosilicon)	
CART-*XS	Screw-in	AISI 316L	Carbon steel	AISI 302	NBR 70 Sh low temp	FKM (viton)	-	

6 SEALS AND HYDRAULIC FLUIDS - for other fluids not included in below table, consult our technical office

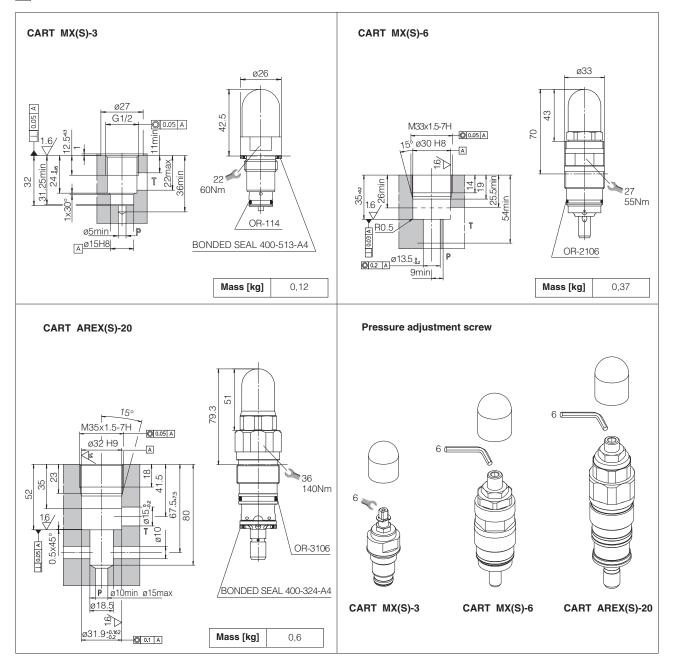
Seals, recommended fluid temperature (1)	NBR seals (standard) = $-40^{\circ}C \div +60^{\circ}C$ FKM seals (/PE option) = $-20^{\circ}C \div +80^{\circ}C$ FVMQ seals (/BBT option) = $-60^{\circ}C \div +60^{\circ}C$			
Recommended viscosity	15÷100 mm²/s - max allowed range 2.8 ÷ 500 mm²/s min = 0,9 mm²/s for X full stainless steel execution with pure water			
Max fluid contamination level	ISO4406 class 20/18/15 NAS1638 class 9, see also filter section at www.atos.com or KTF catalog			
Hydraulic fluid	Suitable seals type	Classification	Ref. Standard	
Mineral oils	NBR low temp., FKM, FVMQ	HL, HLP, HLPD, HVLP, HVLPD	DIN 51524	
Flame resistant without water	FKM, FVMQ	HFDU, HFDR	- ISO 12922	
Flame resistant with water	NBR low temp.	HFA-E, HFA-S, HFB, HFC		

(1) The operating temperature of the fluid must be compatible with the maximum viscosity range allowed for the valve





(1) Minimum pressure with the adjustment screw fully unscrewed



9 RELATED DOCUMENTATION

W010Basics for electrohydraulics in corrosive environmentsW020Summary of Atos stainless steel componentsEW900Operating and maintenance information for stainless steel on-off valves