Family		Flat face						
SERIES	**TECHNICAL FEATURES**	**FIRG** 	**A NEW / A** 	**APM** 	**A-HD** 	**AX** 	**FIRG-Q** 	**FL** 
Interchange	ISO and/or reference markets	ISO 16028	ISO 16028	ISO 16028	ISO 16028	ISO 16028	ISO 16028	ISO 16028
Valve Style	Flat face	✓	✓	✓	✓	✓	✓	✓
	Non spill flat face							
	Ball							
	Poppet							
Connection / Disconnection system	Pushing/Pulling the sleeve	✓	✓	✓	✓	✓	✓	✓
	Single active sleeve							
	Push-Pull*							
	Screw							
	Lever/Knob							
	By Multicoupling							
Safety lock system	Safety ball	✓	✓	✓	✓	✓	✓	✓
	Screw							
	Pin/Cam							
	Double lock	✓	✓		✓	✓	✓	✓
Connection Under residual Pressure	One side			✓	✓			
	Both sides							
	With Easy CUP**			✓				
	Disconnection							
Material	Carbon steel	✓	✓	✓	✓		✓	
	Stainless steel					✓	✓	✓
	Aluminium							
	Brass							
Treatment	Zn-Ni		(✓)					
	Cr3	✓	✓	✓	✓			
	QPQ						✓	
	Other							
Standard seal (others upon request)	Nitrile NBR	✓	✓	✓	✓		✓	
	FKM (Viton®)					✓	✓	✓
	EPDM						✓	
	HNBR							
	Kalrez®						✓	
Fluid type (with standard seal)	Hydraulic oil	✓	✓	✓	✓	✓	✓	✓
	Water, Water&Glycol						✓	
Threads available (others upon request)	BSP	✓	✓	✓	✓	✓	✓	✓
	NPT	✓	✓	✓	✓		✓	✓
	SAE	✓	✓	✓	✓			✓
	METRIC		✓			✓		
	Other	✓	✓					
Sizes / Performances **Max. operating pressure (bar)** *Max suggested flow (l/min)*	1/8"		**420** *6*					**350** *6*
	1/4"	**300** *24*	**420** *24*				**300** *24*	**350** *24*
	3/8"	**300** *46*	**350** *46*	**350** *46*	**350** *46*	**350** *46*	**300** *46*	**350** *46*
	1/2"	**250** *90*	**330** *90*	**330** *90*	**330** *90*	**330** *90*	**250** *90*	**350** *90*
	5/8"	**250** *148*	**330** *148*	**330** *148*			**250** *148*	**350** *148*
	3/4"	**330** *200*	**350** *200* **330** *200*	**330** *200*		**330** *200*	**250** *200*	**330** *200*
	1"	**250** *378*	**350** *378* **300** *378*	**300** *378*		**300** *378*	**250** *378*	**280** *378*
	1-1/4"		**300** *450* **300** *450*					
	1-1/2"	**200** *750*	**270** *750* **270** *750*	**270** *750*			**200** *750*	**230** *750*
	2"	**200** *1000*					**200** *1000*	**150** *1000*
Typical applications	Earth moving	✓	✓	✓	✓			
	Oil&Gas	✓	✓	✓	✓	✓	✓	✓
	Vehicles	✓	✓	✓	✓			
	Agriculture	✓	✓	✓	✓			
	Industry	✓	✓	✓	✓	✓	✓	✓
	Hydraulic tools	✓	✓	✓	✓			
	High pressure							
	Refrigeration					✓		✓
	Cooling						✓	
	Chemical&Food industry					✓	✓	✓

Flat face screw				Multicouplings						
				Plates			Couplings			
VT RoT-lock 	VP-P 	VEP-P 	VEP-HD 	DP 	GR 	GRE 	FAP-ZN 	FAP-HP 	FAQ 	CS 
Stucchi profile	Stucchi profile	Stucchi profile	Stucchi profile	Stucchi profile	Stucchi profile	Stucchi profile	Stucchi profile (with DP, GR)	Stucchi profile (with GR)	Stucchi profile (with DP, GR)	Stucchi profile (with GRE)
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓							
				✓	✓	✓				
				✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓							
				✓	✓	✓				
	✓		safety pin (HDL)	✓	✓	✓				
✓	✓	✓	✓	see FAP-ZN, FAQ	see FAP-ZN, FAP-HP,FAQ	see CS	✓	✓		
✓	✓	✓	✓				✓	✓		
✓	✓	✓	✓				✓	✓		
✓	✓	✓	✓	✓	✓		✓	✓	✓	
									✓	
				✓		✓				
					✓					✓
✓	✓	✓	✓	✓	✓		✓			
	✓	✓	✓					✓		
	✓	✓	✓					✓	✓	
✓	✓	✓	✓	see FAP-ZN, FAQ	see FAP-ZN, FAP-HP,FAQ	see CS	✓	✓	✓	✓
									✓	
									✓	
✓	✓	✓	✓	see FAP-ZN, FAQ	see FAP-ZN, FAP-HP,FAQ	see CS	✓	✓	✓	✓
									✓	✓
	✓	✓	✓	✓	✓	✓	✓		✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓		✓			
✓										
			✓							
	600 *24*	**600** *24*								
	550 *46*	**550** *46*					**350** *46*	**700** *46*	**20** *46*	**10** *46*
	550 *90*	**550** *90*					**330** *90*		**20** *90*	**10** *90*
	550 *148*	**550** *148*	**550** *148*				**330** *148*		**20** *148*	
500 *200*	**500** *200*	**500** *200*	**500** *200*	see FAP-ZN, FAQ	see FAP-ZN, FAP-HP,FAQ	see CS	**330** *200*		**20** *200*	
470 *378*	**470** *378*	**470** *378*	**470** *378*				**300** *378*			
420 *376*			**420** *576*							
	400 *750*	**400** *750*	**400** *750*							
		350 *1000*								
	✓	✓	✓	✓	✓		✓			
✓	✓	✓	✓	✓	✓	✓	✓			✓
✓	✓	✓	✓	✓	✓		✓			
✓				✓	✓		✓			
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓		✓	✓		
✓								✓		
						✓			✓	✓

Family		Casting	Poppet screw				Poppet	
SERIES	**TECHNICAL FEATURES**	SATURN 3 	VD 	VOF 	VOFX 	VR 	BIR 	I/IP 
Interchange	ISO and/or reference markets	ISO 16028	ISO 14541	Oil&Gas couplings	Oil&Gas couplings	Rohrleitung couplings	ISO 7241 A	ISO 7241 A
Valve Style	Flat face	✓						
	Non spill flat face					✓		
	Ball							
	Poppet		✓	✓	✓		✓	✓
Connection / Disconnection system	Pushing/Pulling the sleeve	✓						
	Single active sleeve						✓	
	Push-Pull*							✓
	Screw		✓	✓	✓	✓		
	Lever/Knob							
	By Multicoupling							
Safety lock system	Safety ball	✓					✓	✓
	Screw		✓	✓	✓	✓		
	Pin/Cam							
	Double lock							
Connection Under residual Pressure	One side	✓	✓	✓	✓	✓	BIR-PC	
	Both sides							
	With Easy CUP**	✓						
	Disconnection	✓						
Material	Carbon steel	✓	✓	✓		✓	✓	✓
	Stainless steel				✓			
	Aluminium							
	Brass							
Treatment	Zn-Ni					✓		
	Cr3	✓	✓	✓			✓	✓
	QPQ							
	Other							
Standard seal (others upon request)	Nitrile NBR	✓	✓	✓	✓	✓	✓	✓
	FKM (Viton®)							
	EPDM							
	HNBR							
	Kalrez®							
Fluid type (with standard seal)	Hydraulic oil	✓	✓	✓	✓	✓	✓	✓
	Water, Water&Glycol							
Threads available (others upon request)	BSP		✓	✓	✓	(✓)	✓	✓
	NPT			✓	✓		✓	✓
	SAE	✓		(✓)	(✓)		(✓)	
	METRIC		✓			✓		✓
	Other	✓					✓	
Sizes / Performances **Max. operating pressure (bar)** *Max suggested flow (l/min)*	1/8"							
	1/4"		**450** *24*				**350** *12*	**350** *24*
	3/8"		**450** *46*			**400** *46*	**300** *46*	**300** *46*
	1/2"	**350** *90*	**400** *90*			**300** *90*	**250** *90*	**250** *90*
	5/8"	**350** *148*						
	3/4"	**350** *200*	**400** *148*	**345** *212*	**207** *212*	**350** *212*	**250** *148*	**250** *148*
	1"		**300** *200*	**345** *378*	**207** *378*	**300** *378*	**230** *200*	**250** *200*
	1-1/4"		**300** *378*	**345** *576*	**207** *576*	**420** *576*	**230** *378*	
	1-1/2"			**345** *758*	**207** *758*		**180** *750*	
	2"			**345** *1100*	**207** *1100*		**130** *1000*	
Typical applications	Earth moving	✓	✓	✓	✓	✓		
	Oil&Gas			✓	✓			
	Vehicles		✓			✓		
	Agriculture						✓	✓
	Industry				✓		✓	✓
	Hydraulic tools	✓	✓			✓		
	High pressure							
	Refrigeration							
	Cooling							
	Chemical&Food industry							

Poppet								High pressure		Check valve
IR	IR-V	IFR	IRB	IRBO	IRBX	IRC	IRCX	A-HP	IV-HP	VUZ
										
Similar couplings	Similar couplings	ISO 5676	ISO 7241 B	ISO 7241 B	ISO 7241 B	Nordic couplings	Nordic couplings	Stucchi profile	Similar couplings	-
								✓		
		✓								
✓									✓	
	✓		✓	✓	✓	✓	✓			
								✓		
✓	✓	✓	✓	✓	✓	✓	✓			
									✓	
✓	✓	✓	✓	✓	✓	✓	✓	✓		
									✓	
						✓	✓	✓		
						IRC-PC				
✓	✓	✓	✓			✓		✓	✓	✓
					✓		✓			
				✓	✓					
						✓				
✓	✓	✓	✓					✓	✓	✓
										(VU)
✓	✓	✓	✓			✓		✓	✓	
				✓	✓		✓			
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
								✓		
✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
✓	✓		✓	✓	✓	✓		✓	✓	✓
	(✓)		(✓)	(✓)	(✓)	(✓)	(✓)			✓
		✓								
			350 / 6	200 / 6	250 / 6			700 / 6		400 / 6
300 / 20	300 / 24		350 / 24	200 / 24	250 / 24	450 / 24	300 / 24	700 / 24	700 / 12	350 / 24
300 / 46	300 / 46	150 / 46	300 / 46	160 / 46	200 / 46	350 / 46	300 / 46	700 / 46	700 / 23	350 / 46
250 / 90	250 / 90		280 / 90	160 / 90	200 / 90	330 / 90	300 / 90			300 / 90
250 / 148	250 / 148		230 / 148	125 / 148	160 / 148	330 / 212	200 / 212			300 / 148
200 / 150	200 / 200		180 / 200	100 / 200	125 / 200	330 / 378	200 / 378			300 / 200
										250 / 378
										250 / 600
										150 / 1000
						✓	✓			✓
			✓	✓	✓					✓
						✓	✓			✓
✓	✓	✓				✓	✓			✓
✓	✓		✓	✓	✓					✓
						✓	✓	✓	✓	✓
								✓	✓	
				✓	✓					
				✓	✓					

KEY:

* PUSH-PULL BREAKAWAY:
Stucchi system that avoids breaking the circuit in case the operator does not disconnect properly the couplings.

** EASY CONNECTION UNDER PRESSURE:
Stucchi solution for manual connection with residual pressure in the circuit, thanks to the triple valve system in the male.

BLOW OUT PREVENTION:
Specific dimensions are fire tested and Lloyd certified in accordance with API 16D and the EUB Directive #36.

(✓)
Option available upon request.

✓
Available as an alternative to the standard version.